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FULL ESTIMATED COST	144.36	151.61

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FILE 'MEDLINE' ENTERED AT 06:51:56 ON 08 APR 2004

=> s graphite or graphitic

L24 271323 GRAPHITE OR GRAPHITIC

=> s l24 and (contrast agent or imaging agent or mri or pet or ultrasound or mr imaging or nmr)

L25 8013 L24 AND (CONTRAST AGENT OR IMAGING AGENT OR MRI OR PET OR ULTRASOUND OR MR IMAGING OR NMR)

=> s l24(l)(contrast agent or imaging agent or mri or pet or ultrasound or mr imaging or nmr)

L26 6188 L24(L) (CONTRAST AGENT OR IMAGING AGENT OR MRI OR PET OR ULTRASOUND OR MR IMAGING OR NMR)

=> s (graphite or graphitic)(l)carbon

L27 89178 (GRAPHITE OR GRAPHITIC) (L) CARBON

=> s l27(l)(contrast agent or imaging agent or mri or pet or ultrasound or mr
imaging or nmr)
L28 4178 L27(L) (CONTRAST AGENT OR IMAGING AGENT OR MRI OR PET OR ULTRASO
UND OR MR IMAGING OR NMR)

=> s l27(p)(contrast agent or imaging agent or mri or pet or ultrasound or mr
imaging or nmr)
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L162(P) (CONTRAST'
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L163(P) (CONTRAST'
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L164(P) (CONTRAST'
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L165(P) (CONTRAST'
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L166(P) (CONTRAST'
L29 5683 L27(P) (CONTRAST AGENT OR IMAGING AGENT OR MRI OR PET OR ULTRASO
UND OR MR IMAGING OR NMR)

=> s (graphite or graphitic) (p) carbon
L30 75087 (GRAPHITE OR GRAPHITIC) (P) CARBON

=> s l30(p)(contrast agent or imagining agent or mri or ultrasound or nmr)
L31 386 L30(P) (CONTRAST AGENT OR IMAGING AGENT OR MRI OR ULTRASOUND
OR NMR)

=> s graphitic carbon
L32 2606 GRAPHITIC CARBON

=> s l32(p)(contrast agent or imaging agent or mri or ultrasound or nmr)
L33 27 L32(P) (CONTRAST AGENT OR IMAGING AGENT OR MRI OR ULTRASOUND OR
NMR)

=> dup rem l33
PROCESSING COMPLETED FOR L33
L34 21 DUP REM L33 (6 DUPLICATES REMOVED)

=> d ibib abs kwic

L34 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:940802 CAPLUS
TITLE: Comparative analysis of enzymatically digested
 κ -carrageenans, using liquid chromatography on
ion-exchange and porous graphitic carbon columns
coupled to an evaporative light scattering detector
AUTHOR(S): Antonopoulos, A.; Herbreteau, B.; Lafosse, M.;
Helbert, W.
CORPORATE SOURCE: Institut de Chimie Organique et Analytique, Universite
d'Orleans, Orleans, 45067, Fr.
SOURCE: Journal of Chromatography, A (2004), 1023(2), 231-238
CODEN: JCRAEY; ISSN: 0021-9673
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Enzymically digested κ (A-G4S)-carrageenans, apart from their biol.
activities in plants, could be used as model' mols. to elucidate
potential problems in NMR spectroscopy of carrageenans. Thus,
oligosaccharides obtained from κ -carrageenan by enzymic digestion
using κ -carrageenase have been separated on silica and polymeric based
ion-exchange and porous **graphitic carbon** (PGC)
columns, coupled to an evaporative light scattering detector. Oligomers
were separated on ion-exchange columns using a gradient of ammonium acetate as
a developing ion, while anal. on PGC column presented an addnl. adjacent

peak next to each main one, using a gradient of ammonium acetate in water/acetonitrile as a mobile phase. The phenomenon can be attributed to different retention mechanisms that govern the PGC surface. Furthermore, it has been demonstrated that acetonitrile can regulate the selectivity between the peaks raising hopes for preparative chromatog.

REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB Enzymically digested κ (A-G4S)-carrageenans, apart from their biol. activities in plants, could be used as 'model' mols. to elucidate potential problems in NMR spectroscopy of carrageenans. Thus, oligosaccharides obtained from κ -carrageenan by enzymic digestion using κ -carrageenase have been separated on silica and polymeric based ion-exchange and porous **graphitic carbon** (PGC) columns, coupled to an evaporative light scattering detector. Oligomers were separated on ion-exchange columns using a gradient of ammonium acetate as a developing ion, while anal. on PGC column presented an addnl. adjacent peak next to each main one, using a gradient of ammonium acetate in water/acetonitrile as a mobile phase. The phenomenon can be attributed to different retention mechanisms that govern the PGC surface. Furthermore, it has been demonstrated that acetonitrile can regulate the selectivity between the peaks raising hopes for preparative chromatog.

=> d 2 ibib abs kwic

L34 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 2003:591549 CAPLUS

DOCUMENT NUMBER: 139:260908

TITLE: Melem (2,5,8-Triamino-tri-s-triazine), an Important Intermediate during Condensation of Melamine Rings to **Graphitic Carbon** Nitride: Synthesis, Structure Determination by X-ray Powder Diffractometry, Solid-State NMR, and Theoretical Studies

AUTHOR(S): Juergens, Barbara; Irran, Elisabeth; Senker, Juergen; Kroll, Peter; Mueller, Helen; Schnick, Wolfgang

CORPORATE SOURCE: Department Chemie, Ludwig-Maximilians-Universitaet Muenchen, Munich, D-81377, Germany

SOURCE: Journal of the American Chemical Society (2003), 125(34), 10288-10300
CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 139:260908

AB Single-phase melem (2,5,8-triamino-tri-s-triazine) $C_6N_7(NH_2)_3$ was obtained as a crystalline powder by thermal treatment of different less condensed C-N-H compds. (e.g., melamine $C_3N_3(NH_2)_3$, dicyandiamide $H_4C_2N_4$, ammonium dicyanamide $NH_4[N(CN)_2]$, or cyanamide H_2CN_2 , resp.) at temps. up to 450 °C in sealed glass ampules. The crystal structure was determined ab initio by X-ray powder diffractometry (Cu K α 1: P21/c (Number 14), a = 739.92(1) pm, b = 865.28(3) pm, c = 1338.16(4) pm, β = 99.912(2)°, and Z = 4). In the solid, melem consists of nearly planar $C_6N_7(NH_2)_3$ mols. which are arranged into parallel layers with an interplanar distance of 327 pm. Detailed ^{13}C and ^{15}N MAS NMR investigations were performed. The presence of the triamino form instead of other possible tautomers was confirmed by a CPPI (cross-polarization combined with polarization inversion) experiment. Furthermore, the compound was characterized using mass spectrometry, vibrational (IR, Raman), and photoluminescence spectroscopy. The structural and vibrational properties of mol. melem were theor. studied on both the B3LYP and the MP2 level. A structural optimization in the extended state was performed employing d. functional methods utilizing LDA and GGA. A good agreement was found between the observed and calculated structural parameters and also for the

vibrational frequencies of melem. According to temperature-dependent X-ray powder diffractometry investigations, above 560 °C melem transforms into a graphite-like C-N material.

REFERENCE COUNT: 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

- TI Melem (2,5,8-Triamino-tri-s-triazine), an Important Intermediate during Condensation of Melamine Rings to **Graphitic Carbon Nitride**: Synthesis, Structure Determination by X-ray Powder Diffractometry, Solid-State **NMR**, and Theoretical Studies
- ST melem intermediate **graphitic carbon nitride** prepn crystallog **NMR** spectra
- IT **NMR** (nuclear magnetic resonance)
(carbon-13, of melamine and melem; synthesis, structure determination, and solid-state **NMR**, mass, vibrational, and photoluminescence spectra of melem as an intermediate during condensation of melamine rings to **graphitic carbon nitride**)
- IT Hysteresis
Melting point
(m.p. hysteresis of melamine; synthesis, structure determination, and solid-state **NMR**, mass, vibrational, and photoluminescence spectra of melem as an intermediate during condensation of melamine rings to **graphitic carbon nitride**)
- IT **NMR** (nuclear magnetic resonance)
(nitrogen-15, of labeled melamine and melem; synthesis, structure determination, and solid-state **NMR**, mass, vibrational, and photoluminescence spectra of melem as an intermediate during condensation of melamine rings to **graphitic carbon nitride**)
- IT IR spectra
Raman spectra
(of melamine and melem; synthesis, structure determination, and solid-state **NMR**, mass, vibrational, and photoluminescence spectra of melem as an intermediate during condensation of melamine rings to **graphitic carbon nitride**)
- IT Structural phase transition
(of melamine; synthesis, structure determination, and solid-state **NMR**, mass, vibrational, and photoluminescence spectra of melem as an intermediate during condensation of melamine rings to **graphitic carbon nitride**)
- IT Crystal structure
Hydrogen bond
Luminescence
Molecular structure
Pi-pi interaction
Vibrational frequency
X-ray diffraction
(of melem; synthesis, structure determination, and solid-state **NMR**, mass, vibrational, and photoluminescence spectra of melem as an intermediate during condensation of melamine rings to **graphitic carbon nitride**)
- IT Condensation reaction
(thermal, of melem precursors and of melem; synthesis, structure determination, and solid-state **NMR**, mass, vibrational, and photoluminescence spectra of melem as an intermediate during condensation of melamine rings to **graphitic carbon nitride**)
- IT 108-78-1, Melamine, reactions
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
(cyclocondensation to melem; synthesis, structure determination, and solid-state **NMR**, mass, vibrational, and photoluminescence spectra of melem as an intermediate during condensation of melamine rings to **graphitic carbon nitride**)

- IT 603996-89-0P
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (cyclocondensation to melem; synthesis, structure determination, and solid-state **NMR**, mass, vibrational, and photoluminescence spectra of melem as an intermediate during condensation of melamine rings to **graphitic carbon** nitride)
- IT 420-04-2, Cyanamide 504-66-5, Dicyanamide 14265-42-0, Ammonium dicyanamide
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclocondensation to melem; synthesis, structure determination, and solid-state **NMR**, mass, vibrational, and photoluminescence spectra of melem as an intermediate during condensation of melamine rings to **graphitic carbon** nitride)
- IT 603996-90-3P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (synthesis, structure determination, and solid-state **NMR**, mass, vibrational, and photoluminescence spectra of melem as an intermediate during condensation of melamine rings to **graphitic carbon** nitride)
- IT 143334-20-7P, Carbon nitride (C3N4)
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (synthesis, structure determination, and solid-state **NMR**, mass, vibrational, and photoluminescence spectra of melem as an intermediate during condensation of melamine rings to **graphitic carbon** nitride)
- IT 1502-47-2P, Melem
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (thermal conversion to **graphitic carbon** nitride; synthesis, structure determination, and solid-state **NMR**, mass, vibrational, and photoluminescence spectra of melem as an intermediate during condensation of melamine rings to **graphitic carbon** nitride)

=> d 3 ibib abs kwic

L34 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2
 ACCESSION NUMBER: 2002:950261 CAPLUS
 DOCUMENT NUMBER: 138:397855
 TITLE: Structural elucidation of zwitterionic carbohydrates derived from glycosphingolipids of the porcine parasitic nematode *Ascaris suum*
 AUTHOR(S): Friedl, Claudia H.; Lochnit, Guenter; Zaehring, Ulrich; Bahr, Ute; Geyer, Rudolf
 CORPORATE SOURCE: Faculty of Medicine, Institute of Biochemistry, University of Giessen, Giessen, D-35392, Germany
 SOURCE: Biochemical Journal (2003), 369(1), 89-102
 CODEN: BIJOAK; ISSN: 0264-6021
 PUBLISHER: Portland Press Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Carbohydrates substituted with phosphocholine (PC) and phosphoethanolamine (PE) were released from zwitterionic glycosphingolipids of the pig parasitic nematode *Ascaris suum* by treatment with endoglycoceramidase. Individual glycans were obtained by HPLC on porous **graphitic carbon** followed by high-pH anion-exchange chromatog. In addition to the known pentasaccharides Gal α 3GalNAc β 4[PC6]GlcNAc β 3Man.b eta.4Glc and Gal α 3GalNAc β 4[PC6]GlcNAc β 3[PE6]Man β 4Glc, the corresponding tri- and tetra-saccharides, as well as components with elongated structures, could be identified by matrix-assisted laser-desorption ionization-time-of-flight MS, methylation anal., 1H- and 13C-**NMR** spectroscopy, exoglycosidase cleavage and electrospray

ionization ion-trap MS. The extended components comprised novel structural motifs such as di-substituted α -galactose carrying two β -linked galactosyl residues, which were found to bear, in part, further fucose, galactose, N-acetylgalactosamine and/or N-acetylglucosamine moieties. Furthermore, addnl. fucosylation of the PC-substituted N-acetylglucosamine and a non-terminal fucosyl motif were detected. In conclusion, this study contributes significant new information on the glycome of nematodes.

REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB Carbohydrates substituted with phosphocholine (PC) and phosphoethanolamine (PE) were released from zwitterionic glycosphingolipids of the pig parasitic nematode *Ascaris suum* by treatment with endoglycoceramidase. Individual glycans were obtained by HPLC on porous **graphitic carbon** followed by high-pH anion-exchange chromatog. In addition to the known pentasaccharides Gal α 3GalNAc β 4[PC6]GlcNAc β 3Man.b eta.4Glc and Gal α 3GalNAc β 4[PC6]GlcNAc β 3[PE6]Man β 4Glc, the corresponding tri- and tetra-saccharides, as well as components with elongated structures, could be identified by matrix-assisted laser-desorption ionization-time-of-flight MS, methylation anal., 1H- and 13C-NMR spectroscopy, exoglycosidase cleavage and electrospray ionization ion-trap MS. The extended components comprised novel structural motifs such as di-substituted α -galactose carrying two β -linked galactosyl residues, which were found to bear, in part, further fucose, galactose, N-acetylgalactosamine and/or N-acetylglucosamine moieties. Furthermore, addnl. fucosylation of the PC-substituted N-acetylglucosamine and a non-terminal fucosyl motif were detected. In conclusion, this study contributes significant new information on the glycome of nematodes.

=> d 4 ibib abs kwic

L34 ANSWER 4 OF 21 USPATFULL on STN

ACCESSION NUMBER: 2002:194537 USPATFULL
 TITLE: Powder synthesis and characterization of amorphous carbon nitride, a-C₃N₄
 INVENTOR(S): Khabashesku, Valery N., Houston, TX, United States
 Margrave, John L., Bellaire, TX, United States
 Zimmerman, John L., Lincoln Park, MI, United States
 PATENT ASSIGNEE(S): William Marsh Rice University, Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6428762	B1	20020806
APPLICATION INFO.:	US 2000-626173		20000727 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-145733P	19990727 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Langel, Wayne A.	
LEGAL REPRESENTATIVE:	Conley, Rose & Tayon, P.C.	
NUMBER OF CLAIMS:	24	
EXEMPLARY CLAIM:	1,12,20	
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 12 Drawing Page(s)	
LINE COUNT:	788	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Carbon nitride powder prepared by solid-state reaction between cyanuric chloride or its fluoro analogue and lithium nitride. The determined, by elemental analysis, atomic N/C ratio (1.33) in the synthesized material is consistent with C.sub.3N.sub.4 stoichiometry. Combined material

characterization data, obtained by FTIR, Raman, UV-Vis, (13C) MAS NMR, XPS, TGA/DTA and pyrolysis-EIMS methods, provide substantial evidence for graphite-like sp.sup.2-bonded structure composed of building blocks of s-triazine rings bridged by the three-fold coordinated nitrogen atoms in the bulk carbon nitride.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

DETD The XPS data support the results obtained by FTIR, UV-Vis, and NMR spectroscopy. In the XPS survey spectrum, given in FIG. 6, three observed peaks indicate that the synthesized material is composed. . . (major component) eV, which are attributed to the C--C, C--O, C.dbd.N and C.dbd.N bonds, respectively. The C--C peak originates from **graphitic carbon**, presumably formed during minor decomposition of carbon nitride sample under X-ray irradiation. The deconvolved N1s peak shown in FIG. 8. . .

=> d 5 ibib abs kwic

L34 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:683990 CAPLUS

DOCUMENT NUMBER: 138:86202

TITLE: Lactobacillus plantarum MiLAB 393 produces the antifungal cyclic dipeptides cyclo(L-Phe-L-Pro) and cyclo(L-Phe-trans-4-OH-L-Pro) and 3-phenyllactic acid
AUTHOR(S): Strom, Katrin; Sjogren, Jorgen; Broberg, Anders; Schnurer, Johan

CORPORATE SOURCE: Department of Microbiology, Swedish University of Agricultural Sciences, Uppsala, SE-750 07, Swed.

SOURCE: Applied and Environmental Microbiology (2002), 68(9), 4322-4327

CODEN: AEMIDF; ISSN: 0099-2240

PUBLISHER: American Society for Microbiology

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The authors have isolated a Lactobacillus plantarum strain (MiLAB 393) from grass silage that produces broad-spectrum antifungal compds. active against food- and feed-borne filamentous fungi and yeasts in a dual culture agar plate assay. Fusarium sporotrichioides and Aspergillus fumigatus were the most sensitive among the molds, and Kluyveromyces marxianus was the most sensitive yeast species. No inhibitory activity could be detected against the mold Penicillium roqueforti or the yeast Zygosaccharomyces bailii. An isolation procedure, employing a microtiter well spore germination bioassay, was devised to isolate active compds. from the culture filtrate. The cell-free supernatant was fractionated on a C18 SPE column, and the 95% aqueous acetonitrile fraction was further separated

on a preparative HPLC C18 column. Fractions active in the bioassay were then fractionated on a porous **graphitic carbon** column.

The structures of the antifungal compds. cyclo(L-Phe-L-Pro), cyclo(L-Phe-trans-4-OH-L-Pro) and 3-phenyllactic acid (L/D isomer ratio, 9:1), were determined by NMR spectroscopy, mass spectrometry, and gas chromatog. MIC values against A. fumigatus and P. roqueforti were 20 mg ml-1 for cyclo(L-Phe-L-Pro) and 7.5 mg ml-1 for phenyllactic acid. Combinations of the antifungal compds. revealed weak synergistic effects. The production of the antifungal cyclic dipeptides cyclo(L-Phe-L-Pro) and cyclo(L-Phe-trans-4-OH-L-Pro) by lactic acid bacteria is reported here for the first time.

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB The authors have isolated a Lactobacillus plantarum strain (MiLAB 393) from grass silage that produces broad-spectrum antifungal compds. active against food- and feed-borne filamentous fungi and yeasts in a dual culture agar plate assay. Fusarium sporotrichioides and Aspergillus

fumigatus were the most sensitive among the molds, and Kluyveromyces marxianus was the most sensitive yeast species. No inhibitory activity could be detected against the mold Penicillium roqueforti or the yeast Zygosaccharomyces bailii. An isolation procedure, employing a microtiter well spore germination bioassay, was devised to isolate active compds. from the culture filtrate. The cell-free supernatant was fractionated on a C18 SPE column, and the 95% aqueous acetonitrile fraction was further separated

on a preparative HPLC C18 column. Fractions active in the bioassay were then fractionated on a porous **graphitic carbon** column. The structures of the antifungal compds. cyclo(L-Phe-L-Pro), cyclo(L-Phe-trans-4-OH-L-Pro) and 3-phenyllactic acid (L/D isomer ratio, 9:1), were determined by **NMR** spectroscopy, mass spectrometry, and gas chromatog. MIC values against A. fumigatus and P. roqueforti were 20 mg ml⁻¹ for cyclo(L-Phe-L-Pro) and 7.5 mg ml⁻¹ for phenyllactic acid. Combinations of the antifungal compds. revealed weak synergistic effects. The production of the antifungal cyclic dipeptides cyclo(L-Phe-L-Pro) and cyclo(L-Phe-trans-4-OH-L-Pro) by lactic acid bacteria is reported here for the first time.

=> d 6 ibib abs kwic

L34 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:800526 CAPLUS

DOCUMENT NUMBER: 136:121003

TITLE: In situ nuclear magnetic resonance investigations of lithium ions in carbon electrode materials using a novel detector

AUTHOR(S): Gerald, R. E, II; Sanchez, J.; Johnson, C. S.; Klingler, R. J.; Rathke, J. W.

CORPORATE SOURCE: Chemical Technology Division, Argonne National Laboratory, Argonne, IL, 60439, USA

SOURCE: Journal of Physics: Condensed Matter (2001), 13(36), 8269-8285

CODEN: JCOMEL; ISSN: 0953-8984

PUBLISHER: Institute of Physics Publishing

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The reversible electrochem. process (insertion/extraction) of lithium ions in **graphitic carbon** was monitored in situ for the first time by ⁷Li **NMR** (NMR) spectroscopy using a novel **NMR** apparatus. The compression coin cell battery imager is a simple device that combines the functions of an electrochem. cell and an **NMR** detector. A series of ⁷Li **NMR** spectra obtained for a blend of spherical and flaky disordered **graphitic carbon** particles revealed two distinct chemical shift signatures for the lithium ions that were inserted and extracted in the first electrochem. cycle. The lithium signal at .apprx.50 ppm is consistent with the interplane sites for lithium ions on the sixfold axis between two stacked aromatic carbon rings aligned in registry. The second predominant lithium signal at .apprx.12 ppm occurs in the chemical shift region reported for high-stage lithiated graphite and a dispersion of lithium-ion sites found in disordered carbon matrixes. In addition, we observed chemical shift signatures

similar to those assigned to Li-7 nuclei in lithium oxide, lithium carbonate, lithium alkyls, and lithium alkoxides that occur near 0 ppm and represent lithium nuclei that are irreversibly bound in the electrode/electrolyte interphase. An increase in intensity in the spectral region that is normally associated with irreversibly bound lithium was observed during the first discharge cycle, as anticipated. However, the same peaks in the spectrum unexpectedly diminished during the subsequent charge cycle, suggesting that the interphase between the carbon electrode and the electrolyte is built up over several cycles.

REFERENCE COUNT: 66 THERE ARE 66 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB The reversible electrochem. process (insertion/extraction) of lithium ions in **graphitic carbon** was monitored in situ for the first time by ⁷Li NMR (NMR) spectroscopy using a novel NMR apparatus The compression coin cell battery imager is a simple device that combines the functions of an electrochem. cell and an NMR detector. A series of ⁷Li NMR spectra obtained for a blend of spherical and flaky disordered **graphitic carbon** particles revealed two distinct chemical shift signatures for the lithium ions that were inserted and extracted in the first electrochem. cycle. The lithium signal at .apprx.50 ppm is consistent with the interplane sites for lithium ions on the sixfold axis between two stacked aromatic carbon rings aligned in registry. The second predominant lithium signal at .apprx.12 ppm occurs in the chemical shift region reported for high-stage lithiated graphite and a dispersion of lithium-ion sites found in disordered carbon matrixes. In addition, we observed chemical shift signatures similar to those assigned to Li-7 nuclei in lithium oxide, lithium carbonate, lithium alkyls, and lithium alkoxides that occur near 0 ppm and represent lithium nuclei that are irreversibly bound in the electrode/electrolyte interphase. An increase in intensity in the spectral region that is normally associated with irreversibly bound lithium was observed during the first discharge cycle, as anticipated. However, the same peaks in the spectrum unexpectedly diminished during the subsequent charge cycle, suggesting that the interphase between the carbon electrode and the electrolyte is built up over several cycles.

=> d 7 ibib

L34 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:158524 CAPLUS

DOCUMENT NUMBER: 132:198742

TITLE: Isolation and identification of unsaturated fatty acid methyl esters from marine micro-algae

AUTHOR(S): Viron, C.; Saunois, A.; Andre, P.; Perly, B.; Lafosse, M.

CORPORATE SOURCE: UFR Sciences, Institut Chimie Organique et Analytique, CNRS UPRES A 6005, Universite d'Orleans, Orleans, 45067, Fr.

SOURCE: Analytica Chimica Acta (2000), 409(1-2), 257-266
CODEN: ACACAM; ISSN: 0003-2670

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

=> d 8 ibib

L34 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:305076 CAPLUS

DOCUMENT NUMBER: 132:336593

TITLE: Organic petrology, chemical composition, and reflectance of pyrobitumen from the El Soldado copper deposit, Chile

AUTHOR(S): Wilson, N. S. F.

CORPORATE SOURCE: Department of Earth Sciences, Dalhousie University, Halifax, NS, Can.

SOURCE: International Journal of Coal Geology (2000), 43(1-4), 53-82
CODEN: IJCGDE; ISSN: 0166-5162

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English
REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 9 ibib

L34 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:322896 CAPLUS
DOCUMENT NUMBER: 131:73223
TITLE: Canastanes: Ab Initio Quantum Mechanical Prediction of
New Curved Polynuclear Aromatic Hydrocarbon Motif
AUTHOR(S): Baldridge, Kim K.; Siegel, Jay S.
CORPORATE SOURCE: San Diego Supercomputer Center and Department of
Chemistry, University of California San Diego, La
Jolla, CA, 92093-0358, USA
SOURCE: Journal of the American Chemical Society (1999),
121(22), 5332-5333
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 10 ibib

L34 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:494536 CAPLUS
DOCUMENT NUMBER: 131:236539
TITLE: Solid-state nuclear magnetic resonance spectroscopy of
low dielectric constant films from pulsed
hydrofluorocarbon plasmas
AUTHOR(S): Lau, Kenneth K. S.; Gleason, Karen K.
CORPORATE SOURCE: Department of Chemical Engineering, Massachusetts
Institute of Technology, Cambridge, MA, 02139, USA
SOURCE: Journal of the Electrochemical Society (1999), 146(7),
2652-2658
CODEN: JESOAN; ISSN: 0013-4651
PUBLISHER: Electrochemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 11 ibib

L34 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:678058 CAPLUS
DOCUMENT NUMBER: 131:306549
TITLE: Superheated water: a new look at chromatographic
eluent for reversed-phase HPLC
AUTHOR(S): Smith, Roger M.; Burgess, Robert J.; Chienthavorn,
Orapin; Bone, Joanne R.
CORPORATE SOURCE: Department of Chemistry, Loughborough University,
Loughborough, Leicestershire, LE11 3TU, UK
SOURCE: LC-GC (1999), 17(10), 938, 940, 942, 944-945
CODEN: LCGCE7; ISSN: 0888-9090
PUBLISHER: Advanstar Communications, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 12 ibib

L34 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1999:342162 CAPLUS
 DOCUMENT NUMBER: 131:160588
 TITLE: Preparation and characterization of carbonaceous matter rich in diamond-like carbon and carbyne moieties
 AUTHOR(S): Cataldo, Franco; Capitani, Donatella
 CORPORATE SOURCE: Progega s.n.c., Rome, 00133, Italy
 SOURCE: Materials Chemistry and Physics (1999), 59(3), 225-231
 CODEN: MCHPDR; ISSN: 0254-0584
 PUBLISHER: Elsevier Science S.A.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 13 ibib

L34 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1998:129580 CAPLUS
 DOCUMENT NUMBER: 128:127712
 TITLE: Solid State 13C and 19F NMR Characterization of Fluorinated Charcoal
 AUTHOR(S): Hagaman, Edward W.; Murray, David K.; Cul, G. D. Del
 CORPORATE SOURCE: Chemical and Analytical Sciences Division, Oak Ridge National Laboratory, Oak Ridge, TN, 37831-6201, USA
 SOURCE: Energy & Fuels (1998), 12(2), 399-408
 CODEN: ENFUEM; ISSN: 0887-0624
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 14 ibib

L34 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3
 ACCESSION NUMBER: 1997:335170 CAPLUS
 DOCUMENT NUMBER: 126:339851
 TITLE: Identification of a novel animal metabolite of methomyl insecticide
 AUTHOR(S): Reiser, Robert W.; Dietrich, Robert F.; Djanegara, Tanya K. S.; Fogiel, Arthur J.; Payne, William G.; Ryan, David L.; Zimmerman, William T.
 CORPORATE SOURCE: DuPont Agricultural Products, Wilmington, DE, 19880-0402, USA
 SOURCE: Journal of Agricultural and Food Chemistry (1997), 45(6), 2309-2313
 CODEN: JAFCAU; ISSN: 0021-8561
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English

=> d 15 ibib

L34 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:213036 CAPLUS
DOCUMENT NUMBER: 126:280001
TITLE: An 19F and 13C NMR study of CFx prepared by variable
temperature fluorination of charcoal with elemental
fluorine
AUTHOR(S): Murray, D. K.; Hagaman, E. W.; Del Cul, G. D.
CORPORATE SOURCE: Chemical & Analytical Sciences Division, Oak Ridge
National Laboratory, Oak Ridge, TN, 37831-6201, USA
SOURCE: Preprints of Papers - American Chemical Society,
Division of Fuel Chemistry (1997), 42(1), 232-237
CODEN: ACFPAI; ISSN: 0569-3772
PUBLISHER: American Chemical Society, Division of Fuel Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English

=> d 15 abs kwic

L34 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
AB The preparation of CFx by elemental fluorination of charcoal is studied using
solid state 13C and 19F **NMR** spectroscopy. 19F-13C CP/MAS
NMR expts. are used to determine the extent of fluorination vs.
reaction temperature Four types of carbon species are observed over the
temperature
range -80°C to 350°C, assigned to **graphitic**
carbon (C), CF, CF2 and CF3. These species are assigned and
quantified using dipolar dephasing and variable contact time expts.
NMR results are presented along with gravimetric and ESCA results
to provide new insights into charcoal structure and fluorination.
AB The preparation of CFx by elemental fluorination of charcoal is studied using
solid state 13C and 19F **NMR** spectroscopy. 19F-13C CP/MAS
NMR expts. are used to determine the extent of fluorination vs.
reaction temperature Four types of carbon species are observed over the
temperature
range -80°C to 350°C, assigned to **graphitic**
carbon (C), CF, CF2 and CF3. These species are assigned and
quantified using dipolar dephasing and variable contact time expts.
NMR results are presented along with gravimetric and ESCA results
to provide new insights into charcoal structure and fluorination.

=> d 16 ibib

L34 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1997:161393 CAPLUS
TITLE: A 19F and 13C NMR study of CFx prepared by variable
temperature fluorination of charcoal with elemental
flourine.
AUTHOR(S): Murray, David K.; Hagaman, Edward W.; Del Cul, G. D.
CORPORATE SOURCE: Chemical & Analytical Sciences Division, Oak Ridge
National Laboratory, Oak Ridge, TN, 37831-6201, USA
SOURCE: Book of Abstracts, 213th ACS National Meeting, San
Francisco, April 13-17 (1997), FUEL-121. American
Chemical Society: Washington, D. C.
CODEN: 64AOAA
DOCUMENT TYPE: Conference; Meeting Abstract
LANGUAGE: English

=> d 17 ibib

L34 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:328838 CAPLUS
DOCUMENT NUMBER: 122:112877

TITLE: The evolutionary process during pyrolytic transformation of poly(N-methylsilazane) from a preceramic polymer into an amorphous silicon nitride/carbon composite

AUTHOR(S): Laine, Richard M.; Babonneau, Florence; Blowhowiak, Kay Y.; Kennish, Richard A.; Rahn, Jeffrey A.; Exarhos, Gregory J.; Waldner, Kurt

CORPORATE SOURCE: Dep. Mater. Sci. Eng., Univ. Michigan, Ann Arbor, MI, 48109-2136, USA

SOURCE: Journal of the American Ceramic Society (1995), 78(1), 137-45
CODEN: JACTAW; ISSN: 0002-7820

PUBLISHER: American Ceramic Society

DOCUMENT TYPE: Journal

LANGUAGE: English

=> d 18 ibib

L34 ANSWER 18 OF 21 USPATFULL on STN

ACCESSION NUMBER: 94:28568 USPATFULL

TITLE: Chemical vapor deposition from single organometallic precursors

INVENTOR(S): Barron, Andrew R., Cambridge, MA, United States
Power, Michael B., Quincy, MA, United States
MacInnes, Andrew N., Dorchester, MA, United States
Hepp, Aloysius F., Bay Village, OH, United States
Jenkins, Phillip P., Cleveland Heights, OH, United States

PATENT ASSIGNEE(S): President and Fellows of Harvard College, Cambridge, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5300320		19940405
APPLICATION INFO.:	US 1992-903256		19920623 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Beck, Shrive		
ASSISTANT EXAMINER:	Maiorana, David M.		
LEGAL REPRESENTATIVE:	Hamilton, Brook, Smith & Reynolds		
NUMBER OF CLAIMS:	23		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 6 Drawing Page(s)		
LINE COUNT:	721		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 19 ibib

L34 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:587406 CAPLUS

DOCUMENT NUMBER: 121:187406

TITLE: Direct isomeric separation of a 3-hydroxyproline-containing prodrug, L-693989, by high-performance liquid chromatography with a porous graphitic carbon column

AUTHOR(S): Bell, Carrie; Tsai, Eric W.; Ip, Dominic P.; Mathre, David J.

CORPORATE SOURCE: Department of Pharmaceutical Research, Merck Research Laboratories, Sumneytown Pike, West Point, PA, 19486, USA

SOURCE: Journal of Chromatography, A (1994), 675(1-2), 248-52
CODEN: JCRAEY; ISSN: 0021-9673

DOCUMENT TYPE: Journal
LANGUAGE: English

=> d 20 ibib

L34 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:84334 CAPLUS
DOCUMENT NUMBER: 120:84334
TITLE: Characterization of the pyrolytic conversion of
polysilsesquioxanes to silicon oxycarbides
AUTHOR(S): Hurwitz, F. I.; Heimann, P.; Farmer, S. C.; Hembree,
D. M., Jr.
CORPORATE SOURCE: NASA Lewis Res. Cent., Cleveland, OH, 44135, USA
SOURCE: Journal of Materials Science (1993), 28(24), 6622-30
CODEN: JMTSAS; ISSN: 0022-2461
DOCUMENT TYPE: Journal
LANGUAGE: English

=> d 21 ibib

L34 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1993:102045 CAPLUS
DOCUMENT NUMBER: 118:102045
TITLE: Laser-induced explosive decomposition of
(fluoromethyl)silanes: reductive chemistry initiated
by laser photolysis
AUTHOR(S): Pola, J.; Bastl, Z.; Tlaskal, J.; Beckers, H.;
Buerger, H.; Moritz, P.
CORPORATE SOURCE: Inst. Chem. Process Fundam., Czech. Acad. Sci.,
Prague, 16502, Czech.
SOURCE: Organometallics (1993), 12(1), 171-6
CODEN: ORGND7; ISSN: 0276-7333
DOCUMENT TYPE: Journal
LANGUAGE: English

=> s graphite(p)(contrast agent or imaging agent or mri)
L35 41 GRAPHITE(P)(CONTRAST AGENT OR IMAGING AGENT OR MRI)

=> s l35 not l34
L36 41 L35 NOT L34

=> d ibib

L36 ANSWER 1 OF 41 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:95363 CAPLUS
DOCUMENT NUMBER: 140:166190
TITLE: Production of endohedral fullerenes
INVENTOR(S): Dunsch, Lothar; Georgi, Petra; Ziegls, Frank; Zoeller,
Heidi
PATENT ASSIGNEE(S): Leibniz-Institut fuer Festkoerper- und
Werkstoffforschung e.V., Germany
SOURCE: Ger. Offen., 3 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10301722	A1	20040205	DE 2003-10301722	20030115

WO 2004016624 A2 20040226 WO 2003-DE2501 20030721

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: DE 2002-10233566 IA 20020722

=> d 2 ibib

L36 ANSWER 2 OF 41 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:483763 CAPLUS
DOCUMENT NUMBER: 137:66109
TITLE: Carbon- and CxN-coated iron nanocrystals synthesized
by a modified AC arc method in N2 buffer gas
AUTHOR(S): Jiang, Ming; Zhang, Xungao; Liu, Ying; Mao, Hui
CORPORATE SOURCE: Tongji Medical College, School of Pharmacy, Huazhong
University of Science and Technology, Wuhan, 430030,
Peop. Rep. China
SOURCE: Journal of Materials Science Letters (2002), 21(6),
455-456
CODEN: JMSLD5; ISSN: 0261-8028
PUBLISHER: Kluwer Academic Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 3 ibib

L36 ANSWER 3 OF 41 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:290831 CAPLUS
DOCUMENT NUMBER: 134:307326
TITLE: Fulleroles including gadolinium and their use as
contrast agents
INVENTOR(S): Kato, Haruto; Shinohara, Hisanori; Mitsukawa, Masato;
Miwa, Naoto
PATENT ASSIGNEE(S): Schering A. G., Germany
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001114713	A2	20010424	JP 1999-293901	19991015
PRIORITY APPLN. INFO.:			JP 1999-293901	19991015

=> d 4 ibib

L36 ANSWER 4 OF 41 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:596579 CAPLUS
DOCUMENT NUMBER: 129:265529

TITLE: Spectroscopic and Electrochemical Evaluation of a
 Perfluorosulfonated Ionomer and Its Gel as
 Preconcentrating Media for [ReI(DMPE)3]⁺, Where DMPE =
 1,2-Bis(dimethylphosphino)ethane
 AUTHOR(S): Swaile, Beverly H.; Blubaugh, Elmo A.; Seliskar, Carl
 J.; Heineman, William R.
 CORPORATE SOURCE: Department of Chemistry, University of Cincinnati,
 Cincinnati, OH, 45221-0172, USA
 SOURCE: Analytical Chemistry (1998), 70(20), 4326-4332
 CODEN: ANCHAM; ISSN: 0003-2700
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 5 ibib

L36 ANSWER 5 OF 41 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1997:551242 CAPLUS
 DOCUMENT NUMBER: 127:228732
 TITLE: Gadolinium-containing fullerenes for MRI contrast
 agent applications
 AUTHOR(S): Cagle, Dawson W.; Alford, J. Michael; Tien, Jade;
 Wilson, Lon J.
 CORPORATE SOURCE: Department of Chemistry and Laboratory for Biochemical
 and Genetic Engineering, Rice University, Houston, TX,
 77005, USA
 SOURCE: Proceedings - Electrochemical Society (1997),
 97-14(Recent Advances in the Chemistry and Physics of
 Fullerenes and Related Materials), 361-368
 CODEN: PESODO; ISSN: 0161-6374
 PUBLISHER: Electrochemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 6 ibib

L36 ANSWER 6 OF 41 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1996:37114 CAPLUS
 DOCUMENT NUMBER: 124:182516
 TITLE: Wear resistance of aluminum-matrix composites obtained
 by powder metallurgy
 AUTHOR(S): Garcia G., Sergio; Aramburo P., Gerardo; Gonzalez R.,
 Carlos; Garcia H., Alejandro; Cervantes T. Arturo;
 Castaneda, H. Carlos
 CORPORATE SOURCE: Fac. Quim., Univ. Nacional Autonoma Mexico, Mexico
 City, 04510, Mex.
 SOURCE: Congresso Anual - Associacao Brasileira de Metalurgia
 e Materiais (1995), Volume Date 1994, 49th(Vol. 9,
 Materiais Nao-Metalicos: Desenvolvimento de Polimeros,
 Ceramicos e Compositos), 301-12
 CODEN: CAAMEU
 PUBLISHER: Associacao Brasileira de Metalurgia e Materiais
 DOCUMENT TYPE: Journal
 LANGUAGE: Spanish

=> d 5 ibib abs kwic

L36 ANSWER 5 OF 41 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:551242 CAPLUS
DOCUMENT NUMBER: 127:228732
TITLE: Gadolinium-containing fullerenes for MRI contrast agent applications
AUTHOR(S): Cagle, Dawson W.; Alford, J. Michael; Tien, Jade; Wilson, Lon J.
CORPORATE SOURCE: Department of Chemistry and Laboratory for Biochemical and Genetic Engineering, Rice University, Houston, TX, 77005, USA
SOURCE: Proceedings - Electrochemical Society (1997), 97-14(Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials), 361-368
CODEN: PESODO; ISSN: 0161-6374
PUBLISHER: Electrochemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Gd@C82 was purified by a new method employing variable-temperature sublimation techniques and HPLC chromatog. under anaerobic conditions. Sample purity was judged to be 95%, as determined by quant. LD TOF-MS. The compound slowly precipitated from solution after exposure to air. The parent Gd@C82 compound was

derivatized by literature methods to obtain the endohedral metallofullerol, Gd@C82(OH)x. After derivatization, the product remained soluble in aerated water indefinitely. Aqueous solns. of Gd@C82(OH)x were then evaluated by NMR dispersion (NMRD) to determine its value as an MRI contrast agent. Results from this preliminary anal. determined the relaxivity (R1) of the compound to be 0.43 mM-1sec-1, a value which is consistent with an outer-sphere proton relaxation mechanism between water mols. and the 220 Å metallofullerol cage surface.

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 7782-42-5, **Graphite**, reactions 10168-81-7, Gadolinium nitrate
RL: RCT (Reactant); RACT (Reactant or reagent)
(for preparation of gadolinium endohedral metallofullerene and its hydroxylated derivative as potential **MRI contrast agent**)

=> d 6 ibib abs kwic

L36 ANSWER 6 OF 41 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996:37114 CAPLUS
DOCUMENT NUMBER: 124:182516
TITLE: Wear resistance of aluminum-matrix composites obtained by powder metallurgy
AUTHOR(S): Garcia G., Sergio; Aramburo P., Gerardo; Gonzalez R., Carlos; Garcia H., Alejandro; Cervantes T. Arturo; Castaneda, H. Carlos
CORPORATE SOURCE: Fac. Quim., Univ. Nacional Autonoma Mexico, Mexico City, 04510, Mex.
SOURCE: Congresso Anual - Associacao Brasileira de Metalurgia e Materiais (1995), Volume Date 1994, 49th(Vol. 9, Materiais Nao-Metalicos: Desenvolvimento de Polimeros, Ceramicos e Compositos), 301-12
CODEN: CAAMEU
PUBLISHER: Associacao Brasileira de Metalurgia e Materiais
DOCUMENT TYPE: Journal
LANGUAGE: Spanish

AB The wear resistance of Al-matrix composites with SIC, Al2O3, **graphite**, and ZrO2-SiO2 particulate reinforcements was studied. The starting Al powder had composition Zn 0.0051, Fe 0.1070, Ni 0.0026, Cu 0.0130, **Mn** 0.0310, Mg 0.0017, Pb 0.0035, and Al 99.8361%. The composites were characterized by dry wear testing using small specimens

under various conditions (amount of reinforcing particles and friction distances and rates). The Brinell hardness, the distribution of the reinforcing particles, and the porosity of the samples were also determined. SEM was used to determine the wear mechanism and to analyze the interface between the particles and the Al matrix. Differences in the performance of the composites are discussed.

AB The wear resistance of Al-matrix composites with SIC, Al₂O₃, **graphite**, and ZrO₂-SiO₂ particulate reinforcements was studied. The starting Al powder had composition Zn 0.0051, Fe 0.1070, Ni 0.0026, Cu 0.0130, **Mn** 0.0310, Mg 0.0017, Pb 0.0035, and Al 99.8361%. The composites were characterized by dry wear testing using small specimens under various conditions (amount of reinforcing particles and friction distances and rates). The Brinell hardness, the distribution of the reinforcing particles, and the porosity of the samples were also determined. SEM was used to determine the wear mechanism and to analyze the interface between the particles and the Al matrix. Differences in the performance of the composites are discussed.

=> d 7 ibib abs kwic

L36 ANSWER 7 OF 41 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1988:34181 CAPLUS

DOCUMENT NUMBER: 108:34181

TITLE: Technegas - a new ventilation agent for lung scanning

AUTHOR(S): Burch, William M.; Sullivan, Paul J.; McLaren, Christopher J.

CORPORATE SOURCE: John Curtin Sch. Med. Res., Australian Natl. Univ., Acton, 2601, Australia

SOURCE: Nuclear Medicine Communications (1986), 7(12), 865-71, 4 plates

CODEN: NMCODC; ISSN: 0143-3636

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Technegas, a 99mTc-labeled C ultrafine dispersion, was prepared at 2500° in a **graphite** crucible using a generator eluate and used clin. as a lung ventilation **imaging agent**.

Tomog. imaging with Technegas allowed the diagnosis of pulmonary embolism in patients. The agent showed almost no lung clearance and had an effective half-life in the body of 355 min. Computer subtraction images were also obtained.

AB Technegas, a 99mTc-labeled C ultrafine dispersion, was prepared at 2500° in a **graphite** crucible using a generator eluate and used clin. as a lung ventilation **imaging agent**.

Tomog. imaging with Technegas allowed the diagnosis of pulmonary embolism in patients. The agent showed almost no lung clearance and had an effective half-life in the body of 355 min. Computer subtraction images were also obtained.

=> d 8 ibib abs kwic

L36 ANSWER 8 OF 41 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1982:528484 CAPLUS

DOCUMENT NUMBER: 97:128484

TITLE: Improvement of the x-ray procedure for the detection of defective adhesions in fiber composites by adding contrast substances to the adhesives

AUTHOR(S): Lembke, Bernd

CORPORATE SOURCE: Dornier-Werke G.m.b.H., Friedrichshafen, Fed. Rep. Ger.

SOURCE: Report (1981), BMVG-FBWT-81-11, 61 pp. Avail.: NTIS From: Sci. Tech. Aersp. Rep. 1982, 20(10), Abstr. No. N82-19324

DOCUMENT TYPE: Report
LANGUAGE: German

AB The detectability of defective cohesion in carbon fiber composites (CFC) by an x-ray procedure is improved by increasing the absorption capacity of the adhesive by adding the contrast substances BaSO₄ or Al. The adhesives BSL 313A [72162-76-6] and AF 126-2 [66419-20-3] were tested with and without additives on metal-metal adhesion samples for strength and aging behavior and its defect detectability. CFC laminate cohesions with defined defects were x-ray tested under various aging conditions with respect to tensile shearing strength, peeling resistance, shear deformation, and dynamic strength. The most favorable results were achieved with 12% BaSO₄ added to BSL 313 A, or with 9% added to AF 126-2. Specifications for the production of the adhesive sheet are provided for these adhesive systems.

ST epoxy **graphite** defectoscopy; adhesion defect x ray;
contrast agent defectoscopy

=> d 9 ibib abs kwic

L36 ANSWER 9 OF 41 USPATFULL on STN

ACCESSION NUMBER: 2004:8015 USPATFULL
TITLE: Embedded radiation emitter for the localization and dosimetry of brachytherapy seed implants
INVENTOR(S): Sajo, Erno, Baton Rouge, LA, UNITED STATES
Williams, Mark L., Baton Rouge, LA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004006255	A1	20040108
APPLICATION INFO.:	US 2002-188596	A1	20020702 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	PATENT DEPARTMENT, TAYLOR, PORTER, BROOKS & PHILLIPS, L.L.P., P.O. BOX 2471, BATON ROUGE, LA, 70821-2471		
NUMBER OF CLAIMS:	30		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Page(s)		
LINE COUNT:	615		

AB A device and method for improving the identification, localization, and dosimetry of brachytherapy seeds. The device is a brachytherapy seed comprising a therapeutic isotope and a marker isotope having an activity that is a fraction of the activity produced by the therapeutic isotope. The marker isotope emits positrons and/or photons capable of being imaged using radiation detection devices (e.g., positron emission tomography (PET), single-photon emission computed tomography (SPECT), gamma camera, computed tomography (CT)). The radiation dose of the marker isotope delivered beyond the immediate vicinity of the brachytherapy seed is low because the marker isotope is adapted to have an activity of at least one to two orders of magnitude lower than the activity of the therapeutic isotope. Thus, the presence of the marker isotope will not alter the therapeutic characteristics of the brachytherapy seed.

DETD . . . 0.8 mm dia. titanium tubing having a wall thickness of approximately 0.08 mm and a length of 4.5 mm. Two **graphite** pellets 6, plated with Pd-103, were inserted into capsule 4 to produce therapeutic activity. **Graphite** pellets 6 have an approximate length of 1 mm and a diameter of 0.6 mm. Marker 8 was placed between **graphite** pellets 6 to allow detection by CT scans or other imaging methods (e.g., fluoroscopic images, magnetic resonance imaging (MRI), and ultrasound imaging). (The actual composition of marker 8 is proprietary; however, it is believed that said marker 8 comprises.

=> d 10 ibib abs kwic

L36 ANSWER 10 OF 41 USPATFULL on STN

ACCESSION NUMBER: 2003:312970 USPATFULL
TITLE: Cardiac gating method and system
INVENTOR(S): Ho, Vincent B., N. Bethesda, MD, UNITED STATES
Haigney, Mark C., Annapolis, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003220578	A1	20031127
APPLICATION INFO.:	US 2002-285702	A1	20021101 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-330894P	20011102 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MORRISON & FOERSTER LLP, 1650 TYSONS BOULEVARD, SUITE 300, MCLEAN, VA, 22102	
NUMBER OF CLAIMS:	40	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Page(s)	
LINE COUNT:	880	

AB The invention provides new materials and devices for EKG gating and defibrillation that alleviate problems in the art. Embodiments of the invention utilize special electrodes of certain dimensions and made from materials that can generate trigger signals or transmit pulses more reliably and/or with less interference to other diagnostic procedures. The electrodes and systems improve the amplitude and overall reliability of detecting EKG signals. The improved signals enable more reliable detection of a true cardiac phase and improved cardiac gating. Thus, embodiments of the invention lead to improved image quality, more accurate imaging of cardiac and intrathoracic/upper abdominal structures and improved referencing of systemic arterial blood flow for blood flow measurement within the chest and elsewhere in the body, including, for example, the extremities.

SUMM [0012] The distortion problem in an **MRI** scan from metal electrodes and conductors was addressed by van Genderingen et al., who showed that **graphite** materials need to be reinforced with plastic to prevent breakage [10]. This group used electrodes that were similar in size. . .

=> d 11 ibib abs kwic

L36 ANSWER 11 OF 41 USPATFULL on STN

ACCESSION NUMBER: 2003:139428 USPATFULL
TITLE: Fiber optic interferometric vital sign monitor for use in magnetic resonance imaging, confined care facilities and in-hospital
INVENTOR(S): Varshneya, Deepak, Del Mar, CA, UNITED STATES
Maida, John L., JR., Houston, TX, UNITED STATES
Jeffers, Larry A., Minerva, OH, UNITED STATES
PATENT ASSIGNEE(S): Deepak Varshneya (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003095263	A1	20030522
APPLICATION INFO.:	US 2002-299414	A1	20021119 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2000-499889, filed		

on 8 Feb 2000, GRANTED, Pat. No. US 6498652
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: WATTS, HOFFMANN, FISHER & HEINKE CO., L.P.A., P.O. Box
99839, Cleveland, OH, 44199-0839
NUMBER OF CLAIMS: 45
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 14 Drawing Page(s)
LINE COUNT: 2871

AB A fiber optic monitor that utilizes optical phase interferometry to monitor a patient's vital signs such as respiration, cardiac activity, blood pressure and body's physical movement. The monitor, which is non-invasive, comprises an optical fiber interferometer that includes an optical fiber proximately situated to the patient so that time varying acousto-mechanical signals from the patient are coupled into the optical fiber. Responsive thereto, the interferometer generates a time-varying optical intensity resulting from the interference of optical signals, which are detected at a photo-detector. A signal processor coupled to the optical detector provides one or more processed output signals indicative of the vital functions. The monitor system has broad applicability, from routine monitoring of infants at home to detection of apnea, arrhythmia, blood pressure and trauma. The system can be implemented in embodiments ranging from a low cost in-home monitor for infants to a high end product for in hospital use. The monitor can be integrated with other sensors such as an EKG, a video or still camera, an oxygen sensor, a carbon dioxide sensor, temperature sensor or a microphone to get additional required information depending on the application. When integrated and combined with EKG information, the monitor provides ballisto-mechanical information of the heart for early diagnosis of cardiac conditions or prediction of events or for correcting corrupted EKG signals due to time varying magnetic and electric fields. In some embodiments of the monitor, the system can be made portable so that the patient can walk around while still being continuously monitored for vital signs. Another suitable design measures blood pressure continuously and non-invasively by containing the fiber optic sensor in a cuff that wraps around an arterial wall of the patient. The fiber optic monitor may be designed for use in a variety of settings including an operating room, a recovery room, an intensive care unit, a magnetic resonance imaging laboratory, a computerized tomography scan laboratory and an elderly care facility.

SUMM . . . and make it difficult to interpret the patient condition while the third effect causes skin burns. As a result, several **MRI** compatible EKG monitoring systems have been developed utilizing EKG electrodes and leads made of carbon **graphite** vs. the typical Ag/AgCl. The carbon **graphite** material is used to lower resistance at these RF frequencies and eliminate ferromagnetism so that the interference induced heating is minimized. Additionally, filters are used in the signal processing to minimize artifacts. Although using **graphite** electrodes, special filters, ensuring cable straightness, and placing towels on the patient's chest minimizes the skin burns, the false R. . .

DETD . . . the vital signs of patients that are either sedated or present a high risk of having heart attacks during the **MRI**. In addition to their completely passive characteristics, they are non-invasive providing ease of use without posing any bio-chemical threats. They are small in size similar to **graphite** electrodes, can be configured to monitor local or distributed areas depending on if they are configured as optrodes, mattress pads. . . due to their interferometric characteristics. These properties are used in monitoring the key vital signs and addressing the above listed **MRI** problems.

=> d 12 ibib

L36 ANSWER 12 OF 41 USPATFULL on STN
ACCESSION NUMBER: 2003:93845 USPATFULL
TITLE: Derivatization and solubilization of insoluble classes
of fullerenes
INVENTOR(S): Bolskar, Robert D., Boulder, CO, UNITED STATES
Alford, J. Michael, Lakewood, CO, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003065206	A1	20030403
APPLICATION INFO.:	US 2002-263375	A1	20021001 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-371380P	20020409 (60)
	US 2001-326353P	20011001 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	GREENLEE WINNER AND SULLIVAN P C, 5370 MANHATTAN CIRCLE, SUITE 201, BOULDER, CO, 80303	
NUMBER OF CLAIMS:	55	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	9 Drawing Page(s)	
LINE COUNT:	2336	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 13 ibib

L36 ANSWER 13 OF 41 USPATFULL on STN
ACCESSION NUMBER: 2002:180910 USPATFULL
TITLE: Radiation therapy and radiation surgery treatment
system and methods of use of same
INVENTOR(S): Shepherd, Joseph S., 2004 Le Droit Dr., South Pasadena,
CA, United States 91030
Rand, Robert W., 521 North Bristol Ave., Los Angeles,
CA, United States 90049

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6422748	B1	20020723
APPLICATION INFO.:	US 2000-588793		20000606 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1998-84945, filed on 26 May 1998, now patented, Pat. No. US 6104779 Continuation of Ser. No. US 1995-573695, filed on 18 Dec 1995, now patented, Pat. No. US 5894503 Division of Ser. No. US 1994-240374, filed on 10 May 1994, now patented, Pat. No. US 5537452		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Porta, David P.		
LEGAL REPRESENTATIVE:	Lyon & Lyon LLP		
NUMBER OF CLAIMS:	9		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	8 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	607		

=> d 13 abs kwic

L36 ANSWER 13 OF 41 USPATFULL on STN
AB A radiosurgery and radiotherapy system to provide diagnostic imaging and

target localization via a patient 3-D mapping means such as a CT scanner or MRI, patient positioning via a four degree of freedom of motion table, and a stereotactic Cobalt 60 therapy unit incorporating multiple sources to therapeutically irradiate a target is provided. Methods of radiosurgery and radiotherapy utilizing the system are also provided. A combination of radiation source configuration, 360 degree rotational characteristics of the therapy unit, and table movement will allow any size and shape of target to be irradiated to therapeutic levels while decreasing radiation exposure to surrounding healthy tissue. A radiation beam catcher which captures greater than 80% and preferably greater than 90 percent of the radiation from the radiation sources is also provided.

DETD . . . A patient is placed on the treatment table. The treatment table is rotated so as to enter the CT or **MRI** unit. In the case of **MRI**, the treatment table must be constructed of materials compatible with an **MRI**. Most generally, this excludes the use of metal for that part of the treatment table which actually enters the **MRI** unit. Suitable materials include honeycomb reinforced plastics or composite materials such as plastic or **graphite** composites. In a preferred embodiment, the dose reduction/scatter coefficient for table attenuation is less than 1.5% as compare to the. . . another preferred embodiment a heated table top may be included for patient comfort. Imaging data generated from the CT or **MRI** unit is encoded and transferred into the central processing unit (CPU) of the CCC. The CT or **MRI** unit is controlled from the control panel provided with the CT or **MRI** unit. The treatment table provides four axes of movement: Vertical, Lateral, Horizontal, and Rotational. In preferred embodiments the range of. . . In a preferred embodiment, this will automatically: a. rotate the table 180 degrees to position it in the CT or **MRI** unit; b. center the table laterally in the CT or **MRI** unit opening; c. vertically adjust the table so that the treatment table top is within a range of 0-200 mm, preferably 100 mm, below X and Y centerline coordinates of the CT or **MRI** unit. Once this is accomplished, the technician actuates a "CT center" switch on the pedestal controller or the CCC. This moves the treatment table to a preprogrammed position within the CT or **MRI** unit. The technician will then leave the treatment room. The treatment table is embedded with X (horizontal) and Z (lateral) reference markers which are visible on the CT or **MRI** display, for example, for the CT a metal and for the **MRI**, preferably aluminum is used as reference marker material. A one slice CT or **MRI** image is taken and the data is compared to the "calibration reference data" (CRD) for this position to verify X,. . . of the table travel. The table has identical reference markers embedded at this position. A second one slice CT or **MRI** image is taken and compared to the CRD. The CRD comprises a CT slice of each of two reference positions. . .

=> d 14 ibib

L36 ANSWER 14 OF 41 USPATFULL on STN
 ACCESSION NUMBER: 2002:95076 USPATFULL
 TITLE: Insulated skull pins
 INVENTOR(S): Birk, Janel A., Calabasas, CA, United States
 Hover, Anne E., Plava Del Rev, CA, United States
 PATENT ASSIGNEE(S): DePuy AcroMed, Inc., Cleveland, OH, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6379362	B1	20020430
APPLICATION INFO.:	US 1999-354615		19990716 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1997-988082, filed on 10 Dec 1997, now patented, Pat. No. US 5961528		

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Reip, David O.
LEGAL REPRESENTATIVE: Barnes & Thornburg
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 643

=> d 15 ibib

L36 ANSWER 15 OF 41 USPATFULL on STN
ACCESSION NUMBER: 2002:46312 USPATFULL
TITLE: Optical imaging of deep anatomic structures
INVENTOR(S): Flock, Stephen Thomas, 13836 W. 66th Dr., Arvada, CO,
United States 80004
Marchitto, Kevin Scott, 14708 Ridgewood Dr., Little
Rock, AR, United States 72211

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6353753	B1	20020305
APPLICATION INFO.:	US 1999-305418		19990505 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-84283P	19980505 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Manuel, George	
LEGAL REPRESENTATIVE:	Adler, Benjamin Aaron	
NUMBER OF CLAIMS:	30	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 4 Drawing Page(s)	
LINE COUNT:	683	

=> d 16 ibib

L36 ANSWER 16 OF 41 USPATFULL on STN
ACCESSION NUMBER: 2002:22164 USPATFULL
TITLE: Multi-imaging modality tissue mimicking materials for
imaging phantoms
INVENTOR(S): Madsen, Ernest L., Madison, WI, UNITED STATES
D'Souza, Warren D., Madison, WI, UNITED STATES
Frank, Gary R., Madison, WI, UNITED STATES
PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002012999	A1	20020131
	US 6635486	B2	20031021
APPLICATION INFO.:	US 2001-916683	A1	20010727 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-353752, filed on 14 Jul 1999, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Harry C. Engstrom, Foley & Lardner, 150 E. Gilman Street, P.O. Box 1497, Madison, WI, 53701-1497		
NUMBER OF CLAIMS:	46		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	14 Drawing Page(s)		
LINE COUNT:	1166		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 17 ibib

L36 ANSWER 17 OF 41 USPATFULL on STN
ACCESSION NUMBER: 2001:207181 USPATFULL
TITLE: Multi-imaging modality tissue mimicking materials for
imaging phantoms
INVENTOR(S): Madsen, Ernest L., Madison, WI, United States
D'Souza, Warren D., Madison, WI, United States
Frank, Gary R., Madison, WI, United States
PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation, Madison, WI,
United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6318146	B1	20011120
APPLICATION INFO.:	US 1999-353752		19990714 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Kwok, Helen		
ASSISTANT EXAMINER:	Gerber, Charles D.		
LEGAL REPRESENTATIVE:	Foley & Lardner		
NUMBER OF CLAIMS:	43		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	26 Drawing Figure(s); 14 Drawing Page(s)		
LINE COUNT:	1148		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 18 ibib

L36 ANSWER 18 OF 41 USPATFULL on STN
ACCESSION NUMBER: 2000:106958 USPATFULL
TITLE: Radiation therapy and radiation surgery treatment
system and methods of use of same
INVENTOR(S): Shepherd, Joseph S., 2004 Le Droit Dr., South Pasadena,
CA, United States 91030
Rand, Robert W., 521 N. Bristol Ave., Los Angeles, CA,
United States 90049

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6104779		20000815
APPLICATION INFO.:	US 1998-84945		19980526 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-573695, filed on 18 Dec 1995, now patented, Pat. No. US 5894503 which is a division of Ser. No. US 1994-240374, filed on 10 May 1994, now patented, Pat. No. US 5537452		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Porta, David P.		
LEGAL REPRESENTATIVE:	Lyon & Lyon LLP		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	8 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	581		

=> d 118 abs kwic

L18 HAS NO ANSWERS

L10 12 SEA "SHATS E A"/AU OR "SHATS ELENA ALEXANDRA"/AU
L11 7 DUP REM L10 (5 DUPLICATES REMOVED)

L12 10 SEA "BURCH WILLIAM M"/AU
 L13 10 SEA L12 NOT L11
 L14 10 SEA "BROWITT R"/AU OR "BROWITT R J"/AU OR "BROWITT RODNEY"/AU
 OR "BROWITT RODNEY J"/AU OR "BROWITT RODNEY JAMES"/AU
 L15 8 SEA L14 NOT (L13 OR L11)
 L16 22 SEA "SENDEN TIM J"/AU OR "SENDEN TIMOTHY J"/AU OR "SENDEN
 TIMOTHY JOHN"/AU
 L17 20 SEA L16 NOT (L15 OR L12 OR L11)
 L18 0 SEA L17 AND CARBON

=> d 136 18 abs kwic

L36 ANSWER 18 OF 41 USPATFULL on STN

AB A radiosurgery and radiotherapy system to provide diagnostic imaging and
 target localization via a patient 3-D mapping means such as a CT scanner
 or MRI, patient positioning via a four degree of freedom of motion
 table, and a stereotactic Cobalt 60 therapy unit incorporating multiple
 sources to therapeutically irradiate a target is provided. Methods of
 radiosurgery and radiotherapy utilizing the system are also provided. A
 combination of radiation source configuration, 360 degree rotational
 characteristics of the therapy unit, and table movement will allow any
 size and shape of target to be irradiated to therapeutic levels while
 decreasing radiation exposure to surrounding healthy tissue. A radiation
 beam catcher which captures greater than 80% and preferably greater than
 90 percent of the radiation from the radiation sources is also provided.

DETD . . . A patient is placed on the treatment table. The treatment table
 is rotated so as to enter the CT or **MRI** unit. In the case of
 MRI, the treatment table must be constructed of materials
 compatible with an **MRI**. Most generally, this excludes the use
 of metal for that part of the treatment table which actually enters the
 MRI unit. Suitable materials include honeycomb reinforced
 plastics or composite materials such as plastic or **graphite**
 composites. In a preferred embodiment, the dose reduction/scatter
 coefficient for table attenuation is less than 1.5% as compare to the.
 . . . another preferred embodiment, a heated table top may be included
 for patient comfort. Imaging data generated from the CT or **MRI**
 unit is encoded and transferred into the central processing unit (CPU)
 of the CCC. The CT or **MRI** unit is controlled from the control
 panel provided with the CT or **MRI** unit. The treatment table
 provides four axes of movement: Vertical, Lateral, Horizontal, and
 Rotational. In preferred embodiments the range of. . . In a preferred
 embodiment, this will automatically: a. rotate the table 180 degrees to
 position it in the CT or **MRI** unit; b. center the table
 laterally in the CT or **MRI** unit opening; c. vertically adjust
 the table so that the treatment table top is within a range of 0-200 mm,
 preferably 100 mm, below X and Y centerline coordinates of the CT or
 MRI unit. Once this is accomplished, the technician actuates a
 "CT center" switch on the pedestal controller or the CCC. This moves the
 treatment table to a preprogrammed position within the CT or **MRI**
 unit. The technician will then leave the treatment room. The treatment
 table is embedded with X (horizontal) and Z (lateral) reference markers
 which are visible on the CT or **MRI** display, for example, for
 the CT a metal and for the **MRI**, preferably aluminum is used as
 reference marker material. A one slice CT or **MRI** image is
 taken and the data is compared to the "calibration reference data" (CRD)
 for this position to verify X,. . . of the table travel. The table
 has identical reference markers embedded at this position. A second one
 slice CT or **MRI** image is taken and compared to the CRD. The
 CRD comprises a CT slice of each of two reference positions. . .

=> d 19 ibib

L36 ANSWER 19 OF 41 USPATFULL on STN
 ACCESSION NUMBER: 1999:120433 USPATFULL
 TITLE: Insulated skull pins
 INVENTOR(S): Birk, Janel A., Calabasas, CA, United States
 Hover, Anne E., Playa Del Rey, CA, United States
 PATENT ASSIGNEE(S): Depuy Ace Medical Company, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5961528		19991005
APPLICATION INFO.:	US 1997-988082		19971210 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Buiz, Michael		
ASSISTANT EXAMINER:	Reip, David O.		
NUMBER OF CLAIMS:	24		
EXEMPLARY CLAIM:	12		
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	712		

=> d 20 ibib

L36 ANSWER 20 OF 41 USPATFULL on STN
 ACCESSION NUMBER: 1999:46450 USPATFULL
 TITLE: Radiation therapy and radiation surgery treatment system and methods of use of same
 INVENTOR(S): Shepherd, Joseph S., 2004 Le Droit Dr., South Pasadena, CA, United States 91030
 Rand, Robert W., 521 N. Bristol Ave., Los Angeles, CA, United States 90049

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5894503		19990413
APPLICATION INFO.:	US 1995-573695		19951218 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-240374, filed on 10 May 1994, now patented, Pat. No. US 5537452		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Porta, David P.		
LEGAL REPRESENTATIVE:	Lyon & Lyon LLP		
NUMBER OF CLAIMS:	9		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	8 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	616		

=> d 21 ibib

L36 ANSWER 21 OF 41 USPATFULL on STN
 ACCESSION NUMBER: 1998:131799 USPATFULL
 TITLE: System and method for testing imaging performance of ultrasound scanners and other medical imagers
 INVENTOR(S): Madsen, Ernest L., Madison, WI, United States
 Kofler, Jr., James M., Rochester, MN, United States
 PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation, Madison, WI, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5827942		19981027

APPLICATION INFO.: US 1997-951381 19971016 (8)
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Raavis, Robert
LEGAL REPRESENTATIVE: Foley & Lardner
NUMBER OF CLAIMS: 38
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 32 Drawing Figure(s); 20 Drawing Page(s)
LINE COUNT: 2305

=> d 21 kwic abs

L36 ANSWER 21 OF 41 USPATFULL on STN

SUMM The performance of other types of medical imagers, such as magnetic resonance imagers (**MRI**) and computed tomography (CT) equipment can also be evaluated using phantoms. Materials with various contrasts relative to the background have been produced and formed into phantoms for **MRI** imaging equipment including exact positioning of spheres with coplanar centers. See, E. L. Madsen, J. C. Blechinger and G. R. . . . in contrast can be accomplished through variations (between sphere material and background material) in volume fraction of uniformly suspended powdered **graphite**, microscopic glass beads or microscopic droplets of emulsified oil in solid gelatin or agar. E. L. Madsen, J. A. Zagzebski, . . .

DETD Phantoms with a regular array of spheres with coplanar centers can similarly be made for **MRI** or CT imagers in the same fashion used to produce the ultrasound phantom. Materials with various contrasts relative to the background have been produced and formed into phantoms for **MRI** including exact positioning of spheres with coplanar centers. See, E. L. Madsen, et al., "Low-contrast focal lesion detectability phantom for .sup.1 H MR imaging," supra; and U.S. Pat. No. 5,312,755, which describes suitable materials for **MRI** phantoms. For CT imagers, variations in contrast can be accomplished through variations (between sphere material and background material) in volume fraction of uniformly suspended powdered **graphite**, microscopic glass beads or microscopic droplets of emulsified oil in solid gelatin or agar, as described in E. L. Madsen, . . .

AB Automated testing of the resolution capability of medical imagers, such as ultrasound scanners, magnetic resonance imagers and computed tomography equipment, is carried out using phantoms having coplanar arrays of target objects, such as spheres, the locations of which are precisely known. Images of the phantom at positions containing background material and the target spheres are taken, digitized and processed to determine in the digitized images the locations of the target spheres by making use of the known location and spacing of the spheres. Lesion signal-to-noise ratios are then calculated at the now located positions of the target spheres in the image, and this information may be utilized to determine thresholds for detectability that allow evaluation of the performance of the imager being utilized.

=> d 22 ibib

L36 ANSWER 22 OF 41 USPATFULL on STN

ACCESSION NUMBER: 1998:120043 USPATFULL
TITLE: Radiation therapy and radiation surgery treatment system and methods of use of same
INVENTOR(S): Shepherd, Joseph S., 2004 Le Droit Dr., South Pasadena, CA, United States 91030
Rand, Robert W., 521 N. Bristol Ave., Los Angeles, CA, United States 90049

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5815547		19980929
APPLICATION INFO.:	US 5741556		19951218 (8)
RELATED APPLN. INFO.:	Division of Ser. No.		240374, filed on 10 May 1994,
	now patented, Pat. No.		5537452
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Porta, David P.		
LEGAL REPRESENTATIVE:	Lyon & Lyon, LLP		
NUMBER OF CLAIMS:	12		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 6 Drawing Page(s)		
LINE COUNT:	652		

=> d 23 ibib

L36 ANSWER 23 OF 41 USPATFULL on STN
 ACCESSION NUMBER: 1998:97664 USPATFULL
 TITLE: System and method for medical imaging utilizing a robotic device, and robotic device for use in medical imaging
 INVENTOR(S): Hogan, Neville, Sudbury, MA, United States
 Krebs, Hermano Igo, Somerville, MA, United States
 PATENT ASSIGNEE(S): Massachusetts Institute of Technology, Cambridge, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5794621		19980818
APPLICATION INFO.:	US 1995-553021		19951103 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Lateef, Marvin M.		
ASSISTANT EXAMINER:	Mercader, Eleni Mantis		
LEGAL REPRESENTATIVE:	Oblon, Spivak, McClelland, Maier & Neustadt, P.C.		
NUMBER OF CLAIMS:	49		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	21 Drawing Figure(s); 13 Drawing Page(s)		
LINE COUNT:	1299		

=> d 24 ibib

L36 ANSWER 24 OF 41 USPATFULL on STN
 ACCESSION NUMBER: 1998:85166 USPATFULL
 TITLE: Fiber composite invasive medical instruments and methods for use in interventional imaging procedures
 INVENTOR(S): Werne, Roger W., San Ramon, CA, United States
 PATENT ASSIGNEE(S): ITI Medical Technologies, Inc., Livermore, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5782764		19980721
APPLICATION INFO.:	US 1996-754506		19961119 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1995-554446,		filed on 7 Nov 1995
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Smith, Ruth S.		
LEGAL REPRESENTATIVE:	Limbach & Limbach L.L.P.		
NUMBER OF CLAIMS:	22		

EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 17 Drawing Figure(s); 6 Drawing Page(s)
LINE COUNT: 952

=> d 23 abs kwic

L36 ANSWER 23 OF 41 USPATFULL on STN

AB A robotic device for use in conjunction with an imaging system and an imaging method is provided. The robotic device can provide mechanical measurements within the imaging system, and can also control the mechanical environment within the imaging system. An end effector of the robotic device engages a body segment of the patient. In addition, position and force sensors are associated with the robotic device such that the position and forces applied to the end effector can be sensed/measured and recorded, while images are obtained. In addition, the robotic device includes actuators to move the end effector to a desired position, and/or to provide a force to a body segment of a patient by way of the end effector. In a particularly preferred form, structural, sensory, and actuator components of the robotic device are magneto-translucent, such that the robotic device can control and/or provide measured information regarding the mechanical environment within a magnetic resonance imaging system.

SUMM . . . system (and sensors associated therewith) with the imaging system, components of the robotic system which are disposed inside of the **MRI** are magneto-translucent. By way of example, the structural components of the robot can be formed of aluminum, copper, gold, silver, wood, or most organic materials which do not include iron (polytetrafluoroethylene, nylon, carbon **graphite**, ceramics, etc.). The sensor components can utilize a light source based sensor, with the light source disposed outside of the . . . into the system utilizing an optical fiber or optical cable. One or more magneto-translucent sensors are disposed inside of the **MRI** to provide position, velocity, and/or force information, with the resulting sensed information conveyed outside of the **MRI** utilizing another optical fiber or cable. The body or motor movement associated with robotic tasks can thus be correlated with. . .

DETD . . . which can be considered. First, if the robot is to operate continuously, the robot must be fully compatible with the **MRI** machine at all times. However, it is also possible to provide for intermittent movement of the robot, in which the robot is not fully compatible with the **MRI** machine, however the non-compatible component(s) operate only during down time of the **MRI** (when images are not being obtained or between images). Since images will preferably be obtained relatively frequently (on the order. . . affect the robot or impart forces to the robot, and the robot should not adversely affect images obtained by the **MRI**. The magnetic field of the **MRI** exerts a strong attractive force to any ferromagnetic components and can damage any ferromagnetic parts formed of, e.g., carbon steel. . . which are aluminum, water, copper, gold, silver, and most organic materials which do not include iron (e.g., polytetrafluoroethylene, nylon, carbon **graphite**, ceramics, etc.). In addition, since the **MRI** produces an audio frequency of 200 Hz to 1 KHz, and since a cryogenic pump is typically operating at 1. . .

=> d 24 abs kwic

L36 ANSWER 24 OF 41 USPATFULL on STN

AB A medical interventional instrument for use in a magnetic resonance imaging (MRI) or other imaging system, a method for designing such an instrument, and a method including the steps of positioning an

instrument having a body with a contrast region (constructed in accordance with the invention) and a target in the imaging region of an imaging system and operating the imaging system to produce an image showing both the target and the contrast agent. The instrument has a carbon-fiber or glass-fiber composite (or zirconia) body which preferably carries a contrast agent which is appropriate to the particular imaging modality to be used with the instrument. The concentration and volume of the contrast agent are determined (preferably experimentally) to cause the instrument to be positively shown in an image produced by the imaging system, without obscuring or distorting unacceptably the image of the target (e.g., a typical target, such as human tissue) with which the contrast agent is to be imaged. In some preferred embodiments, the contrast agent is a paramagnetic metal ion. In other preferred embodiments, the contrast agent is an iodinated hydrocarbon. In further preferred embodiments, the contrast agent is a preparation containing microbubbles of air or other gas, or the contrast region includes an air-filled void.

DETD The expressions "carbon-fiber material" and "carbon-fiber composite material" are used interchangeably herein to denote a carbon-fiber (or **graphite**-fiber) reinforced composite material. An example of such a material is a fabric (or array of filaments) of carbon-fiber and a. . . conductivity and is highly anisotropic (which properties minimize problems with eddy currents when the carbon-fiber material is used in a **MRI** system). Where the carbon-fiber material is to be used in a **MRI** system, it should be non-ferromagnetic (so that it will not be subjected to undesirably strong magnetic forces while undergoing MR. . . .

=> d 25 ibib

L36 ANSWER 25 OF 41 USPATFULL on STN

ACCESSION NUMBER: 1998:49592 USPATFULL

TITLE: Radiation therapy and radiation surgery treatment system and methods of use of same

INVENTOR(S): Shepherd, Joseph S., 2004 Le Droit Dr., South Pasadena, CA, United States 91030
Rand, Robert W., 521 N. Bristol Ave., Los Angeles, CA, United States 90049

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5748700		19980505
APPLICATION INFO.:	US 1995-574107		19951218 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-240374, filed on 10 May 1994, now patented, Pat. No. US 5537452		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Porta, David P.		
LEGAL REPRESENTATIVE:	Lyon & Lyon LLP		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 6 Drawing Page(s)		
LINE COUNT:	634		

=> d 26 ibib

L36 ANSWER 26 OF 41 USPATFULL on STN

ACCESSION NUMBER: 97:106779 USPATFULL

TITLE: Use of fullerenes in diagnostic and/or therapeutic agents

INVENTOR(S): Watson, Alan D., Campbell, CA, United States

Klaveness, Jo, Oslo, Norway
 Jamieson, Gene C., Boulder Creek, CA, United States
 Fellmann, Jere D., Livermore, CA, United States
 Vogt, Nils B., Oslo, Norway
 PATENT ASSIGNEE(S): Nycomed Salutar, Inc., Sunnyvale, CA, United States
 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5688486		19971118
	WO 9315768		19930819
APPLICATION INFO.:	US 1994-284606		19941031 (8)
	WO 1993-GB279		19930211
			19941031 PCT 371 date
			19941031 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1992-3037	19920211
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Seidleck, James J.	
ASSISTANT EXAMINER:	Williamson, Michael A.	
LEGAL REPRESENTATIVE:	Fish & Richardson P.C.	
NUMBER OF CLAIMS:	35	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1536	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 26 kwic

L36 ANSWER 26 OF 41 USPATFULL on STN

SUMM . . . macromolecular compounds having tight molecular meshes, for example non-diamond carbon allotropes and in particular carbon-based macromolecular structures such as fullerenes, **graphite** and amorphous carbons, as therapeutic or diagnostic agents, in particular as contrast enhancing agents for contrast media for diagnostic imaging procedures, especially magnetic resonance imaging (MRI), magnetometric imaging (MSI), electrical impedance tomography (EIT), X-ray, ultrasound and scintigraphy.

SUMM . . . 56, Geake, New Scientist, Nov. 16, 1991, page 19, Ebbesen (supra) and Baum C&EN, Dec. 16 1991, pages 17-20) and **graphite** may act as the hosts for intercalated species which lie between adjacent carbon webs. Such species can include diagnostic or therapeutic entities as it is well known that various metals and chelating agents can be intercalated into the **graphite** structure. The introduction of paramagnetic metals and polyamine chelants to produce materials capable of functioning as **MRI** contrast agents is especially attractive. In this regard the technique of template formation of chelates in situ, such as has. . .

DETD . . . are synthesized according to the method of Koch et al., J Org Chem 56:4543-4545 (1991) except that instead of using **graphite** having natural isotopic carbon abundance, **graphite** enriched in the carbon 13, carbon 14 or carbon 11 isotopes is employed as starting materials, thereby affording C.sub.60 molecules enriched in either isotope. The carbon 13-enriched C.sub.60 may be used as an in vivo magnetic resonance **imaging agent**, conveniently after appropriate derivatization, e.g. as described elsewhere herein. The carbon 11-enriched C.sub.60 could be used as a PET agent, . . .

DETD . . . manner similar to that previously described, In@C.sub.60 is prepared in which the indium is the 111 isotope by impregnating a **graphite** disk by exposure of it over a 24 hr period to a boiling aqueous solution of .sup.111 InCl.sub.3. After rinsing. . . .sup.111

In@C.sub.60 by a cluster of peaks centered at m/e 831. After separation, .sup.111 In@C.sub.60 may be used as a **contrast agent** for SPECT imaging.

=> d 27 ibib

L36 ANSWER 27 OF 41 USPATFULL on STN

ACCESSION NUMBER: 96:63835 USPATFULL

TITLE: Radiation therapy and radiation surgery treatment system and methods of use of same

INVENTOR(S): Shepherd, Joseph S., 2004 Le Droit Dr., South Pasadena, CA, United States 91030
Rand, Robert W., 521 N. Bristol Ave., Los Angeles, CA, United States 90049

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5537452		19960716
APPLICATION INFO.:	US 1994-240374		19940510 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Porta, David P.		
LEGAL REPRESENTATIVE:	Lyon & Lyon		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 6 Drawing Page(s)		
LINE COUNT:	598		

=> d 28 ibib

L36 ANSWER 28 OF 41 USPATFULL on STN

ACCESSION NUMBER: 94:51744 USPATFULL

TITLE: Embedded NMR sensors for cure monitoring and control of composite structures

INVENTOR(S): Mohr, Gregory A., Scotia, NY, United States
Cueman, Michael K., Niskayuna, NY, United States
Conradi, Mark S., University City, MO, United States
PATENT ASSIGNEE(S): General Electric Company, Schenectady, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5321358		19940614
APPLICATION INFO.:	US 1993-24136		19930301 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Arana, Louis		
LEGAL REPRESENTATIVE:	Webb, II, Paul R.		
NUMBER OF CLAIMS:	38		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 6 Drawing Page(s)		
LINE COUNT:	627		

=> d 28 kwic

L36 ANSWER 28 OF 41 USPATFULL on STN

DETD . . . relaxed well below the standards typically required for conventional high resolution NMR, or its usual application to magnetic resonance imaging (MRI). The electrical leads 24 are routed through the curing oven walls, using well-known feed through means to an NMR spectrometer. . . *, T.sub.1, and T.sub.2. However, the

electrical conductivity of many composites (especially the technologically important class of composites reinforced with **graphite** fibers) severely limits the depth into the composite that can be probed using conventional external NMR sensors. Hence, by embedding. . .

=> d 29 ibib

L36 ANSWER 29 OF 41 USPATFULL on STN

ACCESSION NUMBER: 93:80573 USPATFULL
TITLE: Fullerene compositions for magnetic resonance spectroscopy and imaging
INVENTOR(S): Neumann, William L., Grover, MO, United States
Cacheris, William P., Florissant, MO, United States
PATENT ASSIGNEE(S): Mallinckrodt Medical, Inc., St. Louis, MO, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5248498		19930928
APPLICATION INFO.:	US 1991-746836		19910819 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Robinson, Allen J.		
ASSISTANT EXAMINER:	Hollinden, Gary E.		
LEGAL REPRESENTATIVE:	Madson & Metcalf		
NUMBER OF CLAIMS:	17		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	440		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 29 kwic

L36 ANSWER 29 OF 41 USPATFULL on STN

SUMM The present invention provides methods and compositions for improved magnetic resonance imaging and spectroscopy, including fluorine-19 **MRI** agents. The **MRI** agents are derived from the class of even-numbered carbon clusters referred to in the art as fullerenes. Fullerenes range in. . . to C.sub.100, with even larger clusters theoretically predicted. These stable closed carbon shells are extracted from the soot of vaporized **graphite**. The highly stable C.sub.60 compound is marked by an icosahedral-cage structure, typified by a soccer ball. Some of the more. . .

SUMM . . . C.sub.60 structure have been prepared. Importantly, it is also possible to incorporate metal species into the carbon cage. By vaporizing **graphite** impregnated with paramagnetic metal species, it is possible to produce fullerene cages containing a paramagnetic metal species. The fullerene cages. . . a stable, nontoxic composition. The presence of a paramagnetic metal species may reduce .sup.19 F and proton relaxivity, thereby enhancing **MRI**, MRS, or MRSI.

DETD The present invention provides novel **MRI** agents, including fluorine **MRI** agents. The **MRI** agents are derived from even-numbered carbon clusters in the range C.sub.30 -C.sub.100. These stable closed carbon shells have recently been isolated from vaporized **graphite**. The highly stable C.sub.60 compound is marked by an icosahedral-cage structure, a polygon with 60 equivalent vertices, 32 faces, 12. . .

DETD By vaporizing **graphite** impregnated with a suitable paramagnetic metal species, it is possible to produce fullerene cages containing a paramagnetic metal species. The. . . hydrogenated as

described above. The presence of a paramagnetic metal species may reduce .sup.19 F and proton relaxivity, thereby enhancing MRI, MRS, or MRSI.

DETD Paramagnetic metal species are incorporated into fullerene cages by laser vaporization of **graphite** impregnated with the metal. To prepare a carbon cluster containing gadolinium, **graphite** is first impregnated with gadolinium and subsequently vaporized by laser energy. The deposited soot is collected and gadolinium carbon clusters. . . extracted clusters may then be fluorinated or hydrogenated according to the procedures of Examples 2 or 3, respectively, to prepare MRI Agents within the scope of the present invention.

=> d 30 ibib

L36 ANSWER 30 OF 41 USPATFULL on STN
ACCESSION NUMBER: 93:30835 USPATFULL
TITLE: Adjustable halo system orthopedic appliance and method
INVENTOR(S): Friddle, Jr., Frank E., Honea Path, SC, United States
PATENT ASSIGNEE(S): Friddle Orthopedic Appliances, Inc., Honea Path, SC, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5203765		19930420
APPLICATION INFO.:	US 1991-708490		19910531 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Apley, Richard J.		
ASSISTANT EXAMINER:	Dvorak, Linda C. M.		
LEGAL REPRESENTATIVE:	Dority & Manning		
NUMBER OF CLAIMS:	28		
EXEMPLARY CLAIM:	8		
NUMBER OF DRAWINGS:	8 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	854		

=> d 31 ibib

L36 ANSWER 31 OF 41 USPATFULL on STN
ACCESSION NUMBER: 86:10471 USPATFULL
TITLE: Contact agents for ultrasonic imaging
INVENTOR(S): Feinstein, Steven B., 295 Hasting Ave., Highland Park, IL, United States 60035

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4572203		19860225
APPLICATION INFO.:	US 1983-461664		19830127 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Howell, Kyle L.		
ASSISTANT EXAMINER:	Jaworski, Francis J.		
LEGAL REPRESENTATIVE:	Blakely, Sokoloff, Taylor & Zafman		
NUMBER OF CLAIMS:	19		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	531		

=> d 31 kwic

L36 ANSWER 31 OF 41 USPATFULL on STN
DETD Solid particulate matter which produces contrast-type enhanced images

include **graphite** particles, glass beads, and similar substances. The present invention has grossly examined many of the available solid particulate matter which theoretically may be used as a **contrast agent**, and has determined that one such agent, although not previously disclosed as a **contrast agent**, has a number of very desirable properties. Such agent and associated liquid carriers are broadly disclosed in U.S. Pat. No.. . .

=> d 32 ibib

L36 ANSWER 32 OF 41 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2000:350855 BIOSIS
DOCUMENT NUMBER: PREV200000350855
TITLE: The relationship of imaging techniques to the accuracy of frameless stereotaxy.
AUTHOR(S): Schulder, Michael [Reprint author]; Fontana, Peter; Lavenhar, Marvin A.; Carmel, Peter W.
CORPORATE SOURCE: Division of Neurosurgery, 90 Bergen Street, Suite 7300, Newark, NJ, 07103, USA
SOURCE: Stereotactic and Functional Neurosurgery, (April, 1999 (2000)) Vol. 72, No. 2-4, pp. 136-141. print.
ISSN: 1011-6125.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 16 Aug 2000
Last Updated on STN: 8 Jan 2002

=> d 33 ibib

L36 ANSWER 33 OF 41 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 1994:12733 BIOSIS
DOCUMENT NUMBER: PREV199497025733
TITLE: The pullout strength of titanium alloy MRI-compatible and stainless steel MRI-incompatible Gardner-Wells tongs.
AUTHOR(S): Blumberg, Kalman D.; Catalano, John B. [Reprint author]; Cotler, Jerome M.; Balderston, Richard A.
CORPORATE SOURCE: Dep. Orthopaedic Surgery, 3 Cooper Plaza, Suite 411, Camden, NJ 08103, USA
SOURCE: Spine, (1993) Vol. 18, No. 13, pp. 1895-1896.
CODEN: SPINDD. ISSN: 0362-2436.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 25 Jan 1994
Last Updated on STN: 5 Mar 1994

=> d 33 kwic

L36 ANSWER 33 OF 41 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AB. . . steel Gardner-Wells tongs and pins previously employed to reduce cervical spine fractures are increasingly being replaced by magnetic resonance imaging (**MRI**)-compatible **graphite** tongs and titanium pins. Concern regarding the relative pullout strengths of these two systems, however, prompted the performance of a cadaver study in which tongs and pins were placed in 10 cadaver skulls and tested to failure. The **MRI**-compatible tongs failed due to plastic deformation of the titanium pin tips resulting in tong slippage and loss of fixation, whereas the stainless steel tongs and pins failed when the skull fractured. These results indicated that **MRI**-compatible systems must be used with extreme caution, particularly when traction exceeds 50 pounds.

=> d 34 ibib

L36 ANSWER 34 OF 41 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN

ACCESSION NUMBER: 2000423833 EMBASE
TITLE: Plain film, CT and MRI sensibility in the evaluation of
intraorbital foreign bodies in an in vitro model of the
orbit and in pig eyes.
AUTHOR: Lagalla R.; Manfre L.; Caronia A.; Bencivinni F.; Duranti
C.; Ponte F.
CORPORATE SOURCE: L. Manfre, via Villa Sperlinga 3, I-90144 Palermo, Italy
SOURCE: European Radiology, (2000) 10/8 (1338-1341).
Refs: 20
ISSN: 0938-7994 CODEN: EURAE3
COUNTRY: Germany
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 012 Ophthalmology
014 Radiology
027 Biophysics, Bioengineering and Medical
Instrumentation
LANGUAGE: English
SUMMARY LANGUAGE: English

=> d 35 ibib

L36 ANSWER 35 OF 41 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN

ACCESSION NUMBER: 2000156504 EMBASE
TITLE: The relationship of imaging techniques to the accuracy of
frameless stereotaxy.
AUTHOR: Schulder M.; Fontana P.; Lavenhar M.A.; Carmel P.W.
CORPORATE SOURCE: Dr. M. Schulder, Division of Neurosurgery, New Jersey
Medical School, 90 Bergen Street, Newark, NJ 07103, United
States. schulder@umdnj.edu
SOURCE: Stereotactic and Functional Neurosurgery, (1999) 72/2-4
(136-141).
Refs: 6
ISSN: 1011-6125 CODEN: SFUNE4
COUNTRY: Switzerland
DOCUMENT TYPE: Journal; Conference Article
FILE SEGMENT: 008 Neurology and Neurosurgery
027 Biophysics, Bioengineering and Medical
Instrumentation
LANGUAGE: English
SUMMARY LANGUAGE: English

=> d 36 ibib

L36 ANSWER 36 OF 41 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN

ACCESSION NUMBER: 1998358887 EMBASE
TITLE: Spectroscopic and electrochemical evaluation of a
perfluorosulfonated ionomer and its gel as preconcentration
media for [Re(I)(DMPE)3]⁺, where DMPE =
1,2-bis(dimethylphosphino)ethane.
AUTHOR: Swaile B.H.; Blubaugh E.A.; Seliskar C.J.; Heineman W.R.
CORPORATE SOURCE: C.J. Seliskar, Department of Chemistry, University of
Cincinnati, P.O. Box 210172, Cincinnati, OH 45221-0172,
United States. carl.seliskar@uc.edu
SOURCE: Analytical Chemistry, (15 Oct 1998) 70/20 (4326-4332).
ISSN: 0003-2700 CODEN: ANCHAM

COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 023 Nuclear Medicine
037 Drug Literature Index
LANGUAGE: English
SUMMARY LANGUAGE: English

=> d 37 ibib

L36 ANSWER 37 OF 41 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN

ACCESSION NUMBER: 93312865 EMBASE
DOCUMENT NUMBER: 1993312865
TITLE: The pullout strength of titanium alloy MRI-compatible and stainless steel MRI-incompatible Gardner-Wells tongs.
AUTHOR: Blumberg K.D.; Catalano J.B.; Cotler J.M.; Balderston R.A.
CORPORATE SOURCE: Department of Orthopaedic Surgery, 3 Cooper Plaza, Camden, NJ 08103, United States
SOURCE: Spine, (1993) 18/13 (1895-1896).
ISSN: 0362-2436 CODEN: SPINDD
COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 027 Biophysics, Bioengineering and Medical Instrumentation
033 Orthopedic Surgery
LANGUAGE: English
SUMMARY LANGUAGE: English

=> d 38 ibib

L36 ANSWER 38 OF 41 MEDLINE on STN
ACCESSION NUMBER: 2001052033 MEDLINE
DOCUMENT NUMBER: PubMed ID: 10939504
TITLE: Plain film, CT and MRI sensibility in the evaluation of intraorbital foreign bodies in an in vitro model of the orbit and in pig eyes.
AUTHOR: Lagalla R; Manfre L; Caronia A; Bencivinni F; Duranti C; Ponte F
CORPORATE SOURCE: Institute of Radiology P. Cignolini, University of Palermo, Italy.
SOURCE: European radiology, (2000) 10 (8) 1338-41.
Journal code: 9114774. ISSN: 0938-7994.
PUB. COUNTRY: GERMANY: Germany, Federal Republic of
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200012
ENTRY DATE: Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20001211

=> d 39 ibib

L36 ANSWER 39 OF 41 MEDLINE on STN
ACCESSION NUMBER: 2000312926 MEDLINE
DOCUMENT NUMBER: PubMed ID: 10853065
TITLE: The relationship of imaging techniques to the accuracy of frameless stereotaxy.
AUTHOR: Schulder M; Fontana P; Lavenhar M A; Carmel P W
CORPORATE SOURCE: Division of Neurosurgery and Biostatistics, New Jersey Medical School, Newark, NJ, USA.. schulder@umdnj.edu

SOURCE: Stereotactic and functional neurosurgery, (1999) 72 (2-4)
136-41.
Journal code: 8902881. ISSN: 1011-6125.
PUB. COUNTRY: Switzerland
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200008
ENTRY DATE: Entered STN: 20000811
Last Updated on STN: 20000811
Entered Medline: 20000802

=> d 40 ibib

L36 ANSWER 40 OF 41 MEDLINE on STN
ACCESSION NUMBER: 1999012511 MEDLINE
DOCUMENT NUMBER: PubMed ID: 9796419
TITLE: Spectroscopic and electrochemical evaluation of a
perfluorosulfonated ionomer and its gel as preconcentrating
media for [ReI(DMPE)3]⁺, where DMPE = 1,2-
bis(dimethylphosphino)ethane.
AUTHOR: Swaile B H; Blubaugh E A; Seliskar C J; Heineman W R
CORPORATE SOURCE: Department of Chemistry, University of Cincinnati, Ohio
45221-0172, USA.
CONTRACT NUMBER: CA42179 (NCI)
SOURCE: Analytical chemistry, (1998 Oct 15) 70 (20) 4326-32.
Journal code: 0370536. ISSN: 0003-2700.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199811
ENTRY DATE: Entered STN: 19990106
Last Updated on STN: 19990106
Entered Medline: 19981124

=> d 41 ibib

L36 ANSWER 41 OF 41 MEDLINE on STN
ACCESSION NUMBER: 94054026 MEDLINE
DOCUMENT NUMBER: PubMed ID: 8235879
TITLE: The pullout strength of titanium alloy MRI-compatible and
stainless steel MRI-incompatible Gardner-Wells tongs.
AUTHOR: Blumberg K D; Catalano J B; Cotler J M; Balderston R A
CORPORATE SOURCE: Department of Orthopaedic Surgery, Cooper Medical Center,
Camden, New Jersey.
SOURCE: Spine, (1993 Oct 1) 18 (13) 1895-6.
Journal code: 7610646. ISSN: 0362-2436.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199312
ENTRY DATE: Entered STN: 19940117
Last Updated on STN: 19970203
Entered Medline: 19931216

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NEWS	8	OCT 28	BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS	9	NOV 24	MSDS-CCOHS file reloaded
NEWS	10	DEC 08	CABA reloaded with left truncation
NEWS	11	DEC 08	IMS file names changed
NEWS	12	DEC 09	Experimental property data collected by CAS now available in REGISTRY
NEWS	13	DEC 09	STN Entry Date available for display in REGISTRY and CA/CAPLUS
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NEWS	15	DEC 18	BIOTECHNO no longer updated
NEWS	16	DEC 19	CROPU no longer updated; subscriber discount no longer available
NEWS	17	DEC 22	Additional INPI reactions and pre-1907 documents added to CAS databases
NEWS	18	DEC 22	IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS	19	DEC 22	ABI-INFORM now available on STN
NEWS	20	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS	21	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAPLUS
NEWS	22	FEB 05	German (DE) application and patent publication number format changes
NEWS	23	MAR 03	MEDLINE and LMEDLINE reloaded
NEWS	24	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	25	MAR 03	FRANCEPAT now available on STN
NEWS	26	MAR 29	Pharmaceutical Substances (PS) now available on STN
NEWS	27	MAR 29	WPIFV now available on STN
NEWS	28	MAR 29	No connect hour charges in WPIFV until May 1, 2004
NEWS	29	MAR 29	New monthly current-awareness alert (SDI) frequency in RAPRA
NEWS EXPRESS			MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
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E4	1	FULLHOUSE/CN
E5	1	FULLINE PMB-F 301/CN
E6	1	FULLINE PMB-F 401BF/CN
E7	1	FULLON MASK/CN
E8	1	FULLPET/CN
E9	1	FULLSAFE/CN
E10	1	FULLVEIL 11028/CN
E11	1	FULLVEIL 53012/CN
E12	1	FULLVEIL 55012/CN

=> e fuller tag/cn

E1	1	FULLER PD 661/CN
E2	1	FULLER PDE 062/CN
E3	0 -->	FULLER TAG/CN
E4	1	FULLER'S EARTH/CN
E5	1	FULLER'S EARTH, JAPANESE ACID CLAY/CN
E6	1	FULLER'S EARTH, REACTION PRODUCTS WITH GLYCEROL, LANOLIN, ME SALICYLATE, POLYETHYLENE GLYCOL, SODIUM SILICATE, STEARIC A CID AND TRIETHANOLAMINE/CN
E7	2	FULLERENE/CN
E8	1	FULLERENE (13C60)/CN

E9 1 FULLERENE (B2C58)/CN
 E10 1 FULLERENE (B2C68)/CN
 E11 1 FULLERENE (B3C57)/CN
 E12 1 FULLERENE (B3C67)/CN

=> e thrombotrace/cn

E1 1 THROMBOTEST/CN
 E2 1 THROMBOTONIN/CN
 E3 1 --> THROMBOTRACE/CN
 E4 1 THROMBOX-13-EN-1-OIC ACID, 11-METHOXY-9,15-BIS((TRIMETHYLSILYL)OXY)-, METHYL ESTER, (9A,11A,13E,15R)-/CN
 E5 1 THROMBOX-13-EN-1-OIC ACID, 11-METHOXY-9,15-BIS((TRIMETHYLSILYL)OXY)-, METHYL ESTER, (9A,11A,13E,15S)-/CN
 E6 1 THROMBOX-13-EN-1-OIC ACID, 11-METHOXY-9,15-BIS((TRIMETHYLSILYL)OXY)-, TRIMETHYLSILYL ESTER, (9A,11A,13E,15R)-/CN
 E7 1 THROMBOX-13-EN-1-OIC ACID, 11-METHOXY-9,15-BIS((TRIMETHYLSILYL)OXY)-, TRIMETHYLSILYL ESTER, (9A,11A,13E,15S)-/CN
 E8 1 THROMBOX-13-EN-1-OIC ACID, 5,6,9,11,15-PENTAHYDROXY-, (9.ALPHA.,13E,15S)-/CN
 E9 1 THROMBOX-13-EN-1-OIC ACID, 5,6-EPOXY-9,11,15-TRIHIDROXY-, (9A,13E,15S)-/CN
 E10 1 THROMBOX-13-EN-1-OIC ACID, 5,6:9,11-DIEPOXY-15-HYDROXY-, (9.ALPHA.,11A,13E,15S)-/CN
 E11 1 THROMBOX-13-EN-1-OIC ACID, 6,9-EPOXY-15-HYDROXY-5-iodo-11-METHOXY-, METHYL ESTER, (9A,13E,15S)-/CN
 E12 1 THROMBOX-13-EN-1-OIC ACID, 6,9-EPOXY-5,11,15-TRIHIDROXY-, (5R,6R,9A,13E,15S)-/CN

=> s e3

L1 1 THROMBOTRACE/CN

=> d

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 220323-85-3 REGISTRY

CN **ThromboTrace (9CI)** (CA INDEX NAME)

ENTE An aqueous colloid of nano-encapsulates with 2-10 layers of carbon enclosing a technetium crystal and PEG palmityl ether; "Fullertag" is without the surfactant

MF Unspecified

CI MAN

SR CA

LC STN Files: BIOSIS, CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil caplus uspatfull biosis embase medline

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

7.04

7.25

FILE 'CAPLUS' ENTERED AT 06:23:04 ON 08 APR 2004

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE 'USPATFULL' ENTERED AT 06:23:04 ON 08 APR 2004

CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 06:23:04 ON 08 APR 2004
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FILE 'EMBASE' ENTERED AT 06:23:04 ON 08 APR 2004
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FILE 'MEDLINE' ENTERED AT 06:23:04 ON 08 APR 2004

=> s l1

L2 2 L1

=> d

L2 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:90549 CAPLUS
DN 130:164988
TI Marker contained in carbon nano-encapsulate for detection of fibrin clots
and for labeling macromolecules
IN Burch, William Martin; Browitt, Rodney James; Nair, Chenicheri Hariharan;
Shats, Elena Alexandra
PA The Australian National University, Australia
SO PCT Int. Appl., 45 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9904826	A1	19990204	WO 1997-AU467	19970724
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9735321	A1	19990216	AU 1997-35321	19970724
	WO 9904827	A1	19990204	WO 1998-AU582	19980723
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9884259	A1	19990216	AU 1998-84259	19980723
	AU 744489	B2	20020228		
	EP 1027080	A1	20000816	EP 1998-934690	19980723
	R:	AT, BE, CH, DE, FR, GB, IT, LI, NL, SE			
	JP 2001510812	T2	20010807	JP 2000-503878	19980723
PRAI	WO 1997-AU467	A	19970724		
	WO 1998-AU582	W	19980723		
RE.CNT	6	THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT			

=> d 2

L2 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 1999:120056 BIOSIS
DN PREV199900120056
TI ThromboTraceX, a new diagnostic agent with high specificity to bind fibrin

in vivo.

AU Nair, H. [Reprint author]; Shats, E. [Reprint author]; Burch, W. [Reprint author]; Browitt, R. [Reprint author]; Senden, T.; Maxwell, L.

CS John Curtin Sch. Med. Res., Canberra, Australia

SO Blood Coagulation and Fibrinolysis, (Oct., 1998) Vol. 9, No. 7, pp. 716-717. print.

Meeting Info.: Meeting of the XVth International Fibrinogen Workshop. Cleveland, Ohio, USA. August 13-15, 1998.

CODEN: BLFIE7. ISSN: 0957-5235.

DT Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

LA English

ED Entered STN: 12 Mar 1999

Last Updated on STN: 5 May 1999

=> s thrombotrace or fullertag or thrombo trace or fuller tag

L3 2 THROMBOTRACE OR FULLERTAG OR THROMBO TRACE OR FULLER TAG

=> s l3 not l2

L4 0 L3 NOT L2

=> e nair chenicheri/au

E1 10 NAIR CHEMBUMKULAM SREEDHARAN BHASKARAN/AU

E2 1 NAIR CHEMICHARI HARIHARAN/AU

E3 0 --> NAIR CHENICHERI/AU

E4 5 NAIR CHENICHERI H/AU

E5 1 NAIR CHENICHERI HARIBARAN/AU

E6 27 NAIR CHENICHERI HARIHARAN/AU

E7 1 NAIR CHENICHERI SIDDHARTHAN/AU

E8 1 NAIR CHERUKANDATH N/AU

E9 2 NAIR CHERUKANTATH N/AU

E10 1 NAIR CHERUKANTATH NARAYANAN/AU

E11 4 NAIR CHERUPALLY K K/AU

E12 1 NAIR CHERUPALLY K KRISHNAN/AU

=> s e4 or e5 or e6 or e8 or e9 or e7

L5 37 "NAIR CHENICHERI H"/AU OR "NAIR CHENICHERI HARIBARAN"/AU OR "NAIR CHENICHERI HARIHARAN"/AU OR "NAIR CHERUKANDATH N"/AU OR "NAIR CHERUKANTATH N"/AU OR "NAIR CHENICHERI SIDDHARTHAN"/AU

=> dup rem l5

PROCESSING COMPLETED FOR L5

L6 31 DUP REM L5 (6 DUPLICATES REMOVED)

=> s l6 and carbon

L7 1 L6 AND CARBON

=> d

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:90549 CAPLUS

DN 130:164988

TI Marker contained in **carbon** nano-encapsulate for detection of fibrin clots and for labeling macromolecules

IN Burch, William Martin; Browitt, Rodney James; **Nair, Chenicheri Hariharan**; Shats, Elena Alexandra

PA The Australian National University, Australia

SO PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

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PI WO 9904826 A1 19990204 WO 1997-AU467 19970724
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ,
LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,
PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US,
UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,
GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,
GN, ML, MR, NE, SN, TD, TG
AU 9735321 A1 19990216 AU 1997-35321 19970724
WO 9904827 A1 19990204 WO 1998-AU582 19980723
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG,
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
AU 9884259 A1 19990216 AU 1998-84259 19980723
AU 744489 B2 20020228
EP 1027080 A1 20000816 EP 1998-934690 19980723
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE
JP 2001510812 T2 20010807 JP 2000-503878 19980723
PRAI WO 1997-AU467 A 19970724
WO 1998-AU582 W 19980723
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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=> e shats elena/au

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E1 11 SHATS E A/AU
E2 6 SHATS E I/AU
E3 0 --> SHATS ELENA/AU
E4 1 SHATS ELENA ALEXANDRA/AU
E5 1 SHATS EVGENIJ I/AU
E6 1 SHATS H/AU
E7 3 SHATS HADAS/AU
E8 9 SHATS I/AU
E9 2 SHATS I K/AU
E10 14 SHATS IGOR/AU
E11 2 SHATS KA R M/AU
E12 3 SHATS KII I P/AU

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=> s e1 or 32 or e4

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L8 2981220 "SHATS E A"/AU OR 32 OR "SHATS ELENA ALEXANDRA"/AU

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=> s l8 and carbon

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L9 397509 L8 AND CARBON

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=> s e1 or e4

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L10 12 "SHATS E A"/AU OR "SHATS ELENA ALEXANDRA"/AU

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=> dup rem l10

PROCESSING COMPLETED FOR L10

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L11 7 DUP REM L10 (5 DUPLICATES REMOVED)

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=> d

L11 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:90549 CAPLUS

DN 130:164988

TI Marker contained in carbon nano-encapsulate for detection of fibrin clots

and for labeling macromolecules
 IN Burch, William Martin; Browitt, Rodney James; Nair, Chenicheri Hariharan;
Shats, Elena Alexandra
 PA The Australian National University, Australia
 SO PCT Int. Appl., 45 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9904826	A1	19990204	WO 1997-AU467	19970724
	W:			AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	
	RW:			GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG	
	AU 9735321	A1	19990216	AU 1997-35321	19970724
	WO 9904827	A1	19990204	WO 1998-AU582	19980723
	W:			AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	
	RW:			GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	
	AU 9884259	A1	19990216	AU 1998-84259	19980723
	AU 744489	B2	20020228		
	EP 1027080	A1	20000816	EP 1998-934690	19980723
	R:			AT, BE, CH, DE, FR, GB, IT, LI, NL, SE	
	JP 2001510812	T2	20010807	JP 2000-503878	19980723
PRAI	WO 1997-AU467	A	19970724		
	WO 1998-AU582	W	19980723		
RE.CNT	6	THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT			

=> d 2

L11 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1998:159645 CAPLUS
 DN 128:292394
 TI Compaction as a method to characterize fibrin network structure: kinetic studies and relationship to crosslinking
 AU Nair, C. H.; **Shats, E. A.**
 CS Thrombosis Research Unit, The Canberra Hospital, Woden, ACT 2606, Australia
 SO Thrombosis Research (1998), Volume Date 1997, 88(4), 381-387
 CODEN: THBRAA; ISSN: 0049-3848
 PB Elsevier Science Inc.
 DT Journal
 LA English
 RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 3

L11 ANSWER 3 OF 7 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 DUPLICATE 1

AN 1998:176598 BIOSIS
 DN PREV199800176598
 TI Compaction as a method to characterise fibrin network structure: Kinetic studies and relationship to crosslinking.
 AU Nair, C. H. [Reprint author]; **Shats, E. A.**
 CS Thrombosis Res. Unit, Canberra Hosp., PO Box 11, Woden, ACT 2606, Australia
 SO Thrombosis Research, (Nov. 15, 1997) Vol. 88, No. 4, pp. 381-387. print. CODEN: THBRAA. ISSN: 0049-3848.
 DT Article
 LA English
 ED Entered STN: 20 Apr 1998
 Last Updated on STN: 20 Apr 1998

=> d 4

L11 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2
 AN 1997:156535 CAPLUS
 DN 126:262572
 TI Interaction of endothelial cells and fibroblasts with modified fibrin networks: role in atherosclerosis
 AU **Shats, E. A.**; Nair, C. H.; Dhall, D. P.
 CS Vascular and Thrombosis Research Unit, Woden Valley Hospital, Canberra, ACT, 2606, Australia
 SO Atherosclerosis (Shannon, Ireland) (1997), 129(1), 9-15
 CODEN: ATHSBL; ISSN: 0021-9150
 PB Elsevier
 DT Journal
 LA English

=> d 5

L11 ANSWER 5 OF 7 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 1997:100029 BIOSIS
 DN PREV199799399232
 TI Diabetes, lipids and fibrin matrices: Interaction with vascular cells.
 AU **Shats, E. A.** [Reprint author]; Nair, C. H. [Reprint author]; Ali, S. [Reprint author]; Wilson, J. D.; Dhall, D. P. [Reprint author]
 CS Vascular Thrombosis Research Unit, Canberra, ACT, Australia
 SO Fibrinolysis, (1996) Vol. 10, No. SUPPL. 4, pp. 18.
 Meeting Info.: XIVth International Fibrinogen Workshop. Canberra, Australia. August 21-23, 1996.
 CODEN: FBRIE7. ISSN: 0268-9499.
 DT Conference; (Meeting)
 Conference; Abstract; (Meeting Abstract)
 LA English
 ED Entered STN: 3 Mar 1997
 Last Updated on STN: 3 Mar 1997

=> d 6 ibib abs kwic

L11 ANSWER 6 OF 7 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 ACCESSION NUMBER: 1997:100030 BIOSIS
 DOCUMENT NUMBER: PREV199799399233
 TITLE: The vascular wall and fibrin: Endothelial cell, fibroblast, and smooth muscle cell growth and function.
 AUTHOR(S): **Shats, E. A.**; Nair, C.h.; Dhall, D. P.
 CORPORATE SOURCE: Vascular Thrombosis Reserach Unit, Woden Valley Hosp., Canberra, ACT, Australia
 SOURCE: Fibrinolysis, (1996) Vol. 10, No. SUPPL. 4, pp. 18.
 Meeting Info.: XIVth International Fibrinogen Workshop.

Canberra, Australia. August 21-23, 1996.
CODEN: FBRIE7. ISSN: 0268-9499.
DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 3 Mar 1997
Last Updated on STN: 3 Mar 1997
AU Shats, E. A.; Nair, C.h.; Dhall, D. P.

=> d 7 ibib abs kwic

L11 ANSWER 7 OF 7 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 1997:100013 BIOSIS
DOCUMENT NUMBER: PREV199799399216
TITLE: Characterizing fibrin network: The calcium conundrum.
AUTHOR(S): Nair, C. H.; Shats, E. A.; Ramasundara, S.;
Dhall, D. P.
CORPORATE SOURCE: Vascular Thrombosis Research Unit, Woden Valley Hosp., PO
Box 11, Woden, ACT 2606, Australia
SOURCE: Fibrinolysis, (1996) Vol. 10, No. SUPPL. 4, pp. 12.
Meeting Info.: XIVth International Fibrinogen Workshop.
Canberra, Australia. August 21-23, 1996.
CODEN: FBRIE7. ISSN: 0268-9499.
DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 3 Mar 1997
Last Updated on STN: 2 Apr 1997
AU Nair, C. H.; Shats, E. A.; Ramasundara, S.; Dhall, D. P.

=> e burch william/au

E1	13	BURCH WENDELL D/AU
E2	8	BURCH WHITMAN C/AU
E3	3 -->	BURCH WILLIAM/AU
E4	1	BURCH WILLIAM A/AU
E5	7	BURCH WILLIAM D/AU
E6	2	BURCH WILLIAM E/AU
E7	3	BURCH WILLIAM F/AU
E8	1	BURCH WILLIAM J/AU
E9	1	BURCH WILLIAM JR/AU
E10	4	BURCH WILLIAM L/AU
E11	1	BURCH WILLIAM LINNEAUS/AU
E12	10	BURCH WILLIAM M/AU

=> s e12

L12 10 "BURCH WILLIAM M"/AU

=> d his

(FILE 'HOME' ENTERED AT 06:21:56 ON 08 APR 2004)

FILE 'REGISTRY' ENTERED AT 06:22:00 ON 08 APR 2004

E FULLERTAG/CN
E FULLER TAG/CN
E THROMBOTRACE/CN

L1 1 S E3

FILE 'CAPLUS, USPATFULL, BIOSIS, EMBASE, MEDLINE' ENTERED AT 06:23:04 ON
08 APR 2004

L2 2 S L1
L3 2 S THROMBOTRACE OR FULLERTAG OR THROMBO TRACE OR FULLER TAG
L4 0 S L3 NOT L2

E NAIR CHENICHERI/AU
 L5 37 S E4 OR E5 OR E6 OR E8 OR E9 OR E7
 L6 31 DUP REM L5 (6 DUPLICATES REMOVED)
 L7 1 S L6 AND CARBON
 E SHATS ELENA/AU
 L8 2981220 S E1 OR 32 OR E4
 L9 397509 S L8 AND CARBON
 L10 12 S E1 OR E4
 L11 7 DUP REM L10 (5 DUPLICATES REMOVED)
 E BURCH WILLIAM/AU
 L12 10 S E12

=> s l12 not l11

L13 10 L12 NOT L11

=> d

L13 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1988:52147 CAPLUS
 DN 108:52147
 TI Method of forming a pertechnetate aerosol composition for lung examination
 by tomography
 IN **Burch, William M.**
 PA Capital Territory Health Commission, Australia
 SO Can., 6 pp.
 CODEN: CAXXA4
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CA 1225025	A1	19870804	CA 1984-459362	19840720
PRAI	CA 1984-459362		19840720		

=> d 2

L13 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1988:34181 CAPLUS
 DN 108:34181
 TI Technegas - a new ventilation agent for lung scanning
 AU **Burch, William M.**; Sullivan, Paul J.; McLaren, Christopher J.
 CS John Curtin Sch. Med. Res., Australian Natl. Univ., Acton, 2601, Australia
 SO Nuclear Medicine Communications (1986), 7(12), 865-71, 4 plates
 CODEN: NMCODC; ISSN: 0143-3636
 DT Journal
 LA English

=> d 3

L13 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1969:8344 CAPLUS
 DN 70:8344
 TI Two level isothermal read-out for high precision thermoluminescence
 dosimetry with lithium fluoride
 AU **Burch, William M.**
 CS Cancer Inst., Melbourne, Australia
 SO Physics in Medicine & Biology (1968), 13(4), 627-34
 CODEN: PHMBA7; ISSN: 0031-9155
 DT Journal
 LA English

=> d 4

L13 ANSWER 4 OF 10 USPATFULL on STN
AN 93:58223 USPATFULL
TI Device for producing a gas-lite radionuclide composition
IN **Burch, William M.**, Duffy, Australia
PA I. J. & L. A. Tetley Manufacturing Pty. Ltd., New South Wales, Australia
(non-U.S. corporation)
PI US 5228444 19930720
AI US 1991-661664 19910227 (7)
RLI Continuation of Ser. No. US 1989-462303, filed on 21 Dec 1989, now
abandoned which is a continuation of Ser. No. US 1988-251930, filed on
29 Sep 1988, now abandoned which is a continuation of Ser. No. US
1985-784847, filed on 4 Oct 1985, now abandoned
PRAI AU 1984-7486 19841004
DT Utility
FS Granted
LN.CNT 398
INCL INCLM: 128/654.000
INCLS: 128/659.000; 128/203.270
NCL NCLM: 600/431.000
NCLS: 128/203.270; 600/436.000
IC [5]
ICM: A61B006-00
EXF 128/654; 128/659; 128/203.17; 128/203.27; 600/3

=> d 5

L13 ANSWER 5 OF 10 USPATFULL on STN
AN 91:92333 USPATFULL
TI Method of forming a radioactive metallic vapor
IN **Burch, William M.**, Duffy, Australia
PA I. J. & L. A. Tetley Manuf. Pty. Ltd., Caringbah, Australia (non-U.S.
corporation)
PI US 5064634 19911112
AI US 1990-519851 19900504 (7)
RLI Continuation-in-part of Ser. No. US 1988-192221, filed on 9 May 1988,
now abandoned which is a division of Ser. No. US 1985-784847, filed on 4
Oct 1985, now abandoned
PRAI AU 1984-7486 19841010
DT Utility
FS Granted
LN.CNT 339
INCL INCLM: 424/001.100
INCLS: 128/659.000; 423/249.000
NCL NCLM: 424/001.130
NCLS: 423/249.000; 424/001.610; 534/014.000; 600/436.000
IC [5]
ICM: A61B006-00
ICS: A61K049-02
EXF 424/1.1; 534/14; 128/659; 128/671; 423/249
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 6

L13 ANSWER 6 OF 10 USPATFULL on STN
AN 81:40858 USPATFULL
TI Diagnostic compositions
IN **Burch, William M.**, Duffy, Australia
PA Capital Territory Health Commission, Canberra City, Australia (non-U.S.
corporation)
PI US 4280991 19810728

AI US 1978-928615 19780727 (5)
PRAI AU 1977-1020 19770729
DT Utility
FS Granted
LN.CNT 157
INCL INCLM: 424/001.000
INCLS: 128/659.000; 128/671.000; 252/305.000; 252/301.100R; 424/001.500;
424/009.000; 424/045.000; 423/249.000
NCL NCLM: 424/001.130
NCLS: 423/249.000; 424/001.610; 424/045.000; 516/002.000; 600/436.000;
600/484.000
IC [3]
ICM: A61K049-00
ICS: A61K043-00; G01T001-00
EXF 424/1; 424/9; 424/45; 252/305; 252/301.1R; 128/2A; 128/659; 128/671;
423/249
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 7

L13 ANSWER 7 OF 10 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 1997:407519 BIOSIS
DN PREV199799713722
TI The physical and chemical nature of technegas.
AU Senden, Tim J. [Reprint author]; Moock, Klaus H.; Gerald, John Fitz;
Burch, William M.; Browitt, Rodney J.; Ling, Christopher D.;
Heath, Graham A.
CS Dep. Applied Mathematics, Res. Sch. Physical Sciences Engineering,
Australian Natl. Univ., Canberra, ACT 0200, Australia
SO Journal of Nuclear Medicine, (1997) Vol. 38, No. 8, pp. 1327-1333.
CODEN: JNMEAQ. ISSN: 0161-5505.
DT Article
LA English
ED Entered STN: 24 Sep 1997
Last Updated on STN: 24 Sep 1997

=> d 8

L13 ANSWER 8 OF 10 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 1997:77957 BIOSIS
DN PREV199799384660
TI Physical properties and use of per technegas as a ventilation agent.
AU Mackey, Douglas W. J. [Reprint author]; Jackson, Phillip; Baker, Richmond
J.; Dasaklis, Con; Fisher, Keith J.; Magee, Michael; Bush, Vivienne;
Burch, William M.; Van Der Wall, Hans; Willett, Gary D.
CS Dep. Nuclear Med., Concord Repatriation Hosp., Concord Rd., Concord, NSW
2139, Australia
SO Journal of Nuclear Medicine, (1997) Vol. 38, No. 1, pp. 163-167.
CODEN: JNMEAQ. ISSN: 0161-5505.
DT Article
LA English
ED Entered STN: 26 Feb 1997
Last Updated on STN: 26 Feb 1997

=> d 9

L13 ANSWER 9 OF 10 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 1993:86719 BIOSIS
DN PREV199344040969
TI The penetration of technegas to the respiring airways.
AU **Burch, William M.**

CS Dep. Clin. Sci., John Curtin Sch. Med. Res., ANU, P.O. Box 334, Canberra,
ACT 2601, Australia

SO Australian and New Zealand Journal of Medicine, (1992) Vol. 22, No. 4, pp.
397.
Meeting Info.: 23rd Annual Scientific Meeting of the Australian and New
Zealand Society of Nuclear Medicine. Adelaide, South Australia, Australia.
May 3-6, 1992.
CODEN: ANZJB8. ISSN: 0004-8291.

DT Conference; (Meeting)

LA English

ED Entered STN: 1 Feb 1993
Last Updated on STN: 2 Feb 1993

=> d 10

L13 ANSWER 10 OF 10 MEDLINE on STN

AN 2002667180 MEDLINE

DN PubMed ID: 12427664

TI Passage of inhaled particles into the blood circulation in humans.

CM Comment on: Circulation. 2002 Jan 29;105(4):411-4. PubMed ID: 11815420

AU **Burch William M**

SO Circulation, (2002 Nov 12) 106 (20) e141-2; author reply e141-2.
Journal code: 0147763. ISSN: 1524-4539.

CY United States

DT Commentary
Letter

LA English

FS Abridged Index Medicus Journals; Priority Journals

EM 200211

ED Entered STN: 20021113
Last Updated on STN: 20030111
Entered Medline: 20021125

=> e browitt rodney/au

E1 1 BROWITT R/AU

E2 4 BROWITT R J/AU

E3 2 --> BROWITT RODNEY/AU

E4 1 BROWITT RODNEY J/AU

E5 2 BROWITT RODNEY JAMES/AU

E6 1 BROWK P K/AU

E7 3 BROWKA A V/AU

E8 2 BROWKA N V/AU

E9 1 BROWKA T M/AU

E10 1 BROWKAERT TOM P E/AU

E11 5 BROWKINA A F/AU

E12 1 BROWKING P J/AU

=> s e1 or e2 or e3 or e4 or e5

L14 10 "BROWITT R"/AU OR "BROWITT R J"/AU OR "BROWITT RODNEY"/AU OR
"BROWITT RODNEY J"/AU OR "BROWITT RODNEY JAMES"/AU

=> d his

(FILE 'HOME' ENTERED AT 06:21:56 ON 08 APR 2004)

FILE 'REGISTRY' ENTERED AT 06:22:00 ON 08 APR 2004

E FULLERTAG/CN

E FULLER TAG/CN

E THROMBOTRACE/CN

L1 1 S E3.

FILE 'CAPLUS, USPATFULL, BIOSIS, EMBASE, MEDLINE' ENTERED AT 06:23:04 ON

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L3          2 S THROMBOTRACE OR FULLERTAG OR THROMBO TRACE OR FULLER TAG
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L5          37 S E4 OR E5 OR E6 OR E8 OR E9 OR E7
L6          31 DUP REM L5 (6 DUPLICATES REMOVED)
L7          1 S L6 AND CARBON
            E SHATS ELENA/AU
L8          2981220 S E1 OR 32 OR E4
L9          397509 S L8 AND CARBON
L10         12 S E1 OR E4
L11         7 DUP REM L10 (5 DUPLICATES REMOVED)
            E BURCH WILLIAM/AU
L12         10 S E12
L13         10 S L12 NOT L11
            E BROWITT RODNEY/AU
L14         10 S E1 OR E2 OR E3 OR E4 OR E5

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L15 8 L14 NOT (L13 OR L11)

L15 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:353326 CAPLUS
DN 136:374834
TI Radiolabeled ferrite particles for imaging
IN **Browitt, Rodney James**; Senden, Timothy John
PA The Australian National University, Australia
SO PCT Int. Appl., 14 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

$$\Rightarrow d \geq 2$$

L15 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1996:246079 CAPLUS
DN 124:264262
TI An electrostatic precipitator for trapping inhalable radioactive carbon particles in a liquid mist

IN **Browitt, Rodney**
 PA Allrad No. 28 Pty Ltd, Australia; Allrad No. 29 Pty Ltd; Allrad No. 19 Pty Ltd
 SO Eur. Pat. Appl., 11 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 703005	A1	19960327	EP 1995-306656	19950920
	EP 703005	B1	19991222		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	CA 2158715	AA	19960322	CA 1995-2158715	19950920
	AU 9531778	A1	19960404	AU 1995-31778	19950920
	AU 686861	B2	19980212		
	AT 187901	E	20000115	AT 1995-306656	19950920
	ES 2143009	T3	20000501	ES 1995-306656	19950920
	PT 703005	T	20000531	PT 1995-95306656	19950920
	JP 08173841	A2	19960709	JP 1995-243467	19950921
	GR 3033042	T3	20000831	GR 2000-400728	20000322
PRAI	AU 1994-8332	A	19940921		
	AU 1995-3332	A	19950602		

=> d 3

L15 ANSWER 3 OF 8 USPATFULL on STN
 AN 1998:95024 USPATFULL
 TI Precipitator
 IN **Browitt, Rodney**, Kaleen, Australia
 PA Allrad No. 28 Pty Ltd., Canberra, Australia (non-U.S. corporation)
 Allrad No. 29 Pty Ltd., Canberra, Australia (non-U.S. corporation)
 Allrad No. 19 Pty Ltd., Canberra, Australia (non-U.S. corporation)
 PI US 5792241 19980811
 AI US 1995-530983 19950920 (8)
 PRAI AU 1994-8332 19940921
 AU 1995-3332 19950602
 DT Utility
 FS Granted
 LN.CNT 277
 INCL INCLM: 096/052.000
 INCLS: 096/061.000; 096/074.000; 096/097.000; 261/081.000; 261/DIG.048
 NCL NCLM: 096/052.000
 NCLS: 096/061.000; 096/074.000; 096/097.000; 261/081.000; 261/DIG.048
 IC [6]
 ICM: B03C003-16
 EXF 096/27; 096/52; 096/53; 096/74; 096/61; 096/69; 096/44; 096/45; 096/97;
 095/64-66; 095/71; 095/72; 095/78; 095/59; 095/75; 261/81; 261/DIG.48

=> d 4

L15 ANSWER 4 OF 8 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 1999:120056 BIOSIS
 DN PREV199900120056
 TI ThromboTraceX, a new diagnostic agent with high specificity to bind fibrin in vivo.
 AU Nair, H. [Reprint author]; Shats, E. [Reprint author]; Burch, W. [Reprint author]; **Browitt, R.** [Reprint author]; Senden, T.; Maxwell, L.
 CS John Curtin Sch. Med. Res., Canberra, Australia
 SO Blood Coagulation and Fibrinolysis, (Oct., 1998) Vol. 9, No. 7, pp. 716-717. print.
 Meeting Info.: Meeting of the XVth International Fibrinogen Workshop.

Cleveland, Ohio, USA. August 13-15, 1998.

CODEN: BLFIE7. ISSN: 0957-5235.

DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 12 Mar 1999
Last Updated on STN: 5 May 1999

=> d 5

L15 ANSWER 5 OF 8 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
AN 1998338072 EMBASE
TI Physical and chemical nature of technegas [2] (multiple letters).
AU Jackson P.; Mackey D.; Van der Wall H.; Senden T.J.; Moock K.H.; Fitz
Gerald J.D.; Burch W.M.; **Browitt R.J.**; Ling C.D.; Heath G.A.
CS P. Jackson, University of New South Wales, Sydney, NSW, Australia
SO Journal of Nuclear Medicine, (1998) 39/9 (1646-1647).
Refs: 9
ISSN: 0161-5505 CODEN: JNMEAQ
CY United States
DT Journal; Letter
FS 023 Nuclear Medicine
029 Clinical Biochemistry
LA English

=> d 6

L15 ANSWER 6 OF 8 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
AN 97238523 EMBASE
DN 1997238523
TI The physical and chemical nature of technegas.
AU Senden T.J.; Moock K.H.; Gerald J.F.; Burch W.M.; **Browitt R.J.**;
Ling C.D.; Heath G.A.
CS Dr. T.J. Senden, Dept. of Applied Mathematics, Res. Sch. of Physical
Sci./Engg., Australian National University, Canberra, ACT 0200, Australia
SO Journal of Nuclear Medicine, (1997) 38/8 (1327-1333).
Refs: 28
ISSN: 0161-5505 CODEN: JNMEAQ
CY United States
DT Journal; Article
FS 023 Nuclear Medicine
037 Drug Literature Index
LA English
SL English

=> d 7

L15 ANSWER 7 OF 8 MEDLINE on STN
AN 97399048 MEDLINE
DN PubMed ID: 9255177
TI The physical and chemical nature of technegas.
CM Comment in: J Nucl Med. 1998 Sep;39(9):1646-9. PubMed ID: 9744362
AU Senden T J; Moock K H; Gerald J F; Burch W M; **Browitt R J**; Ling
C D; Heath G A
CS Department of Physics, University College, University of New South Wales,
Canberra, Australia.
SO Journal of nuclear medicine : official publication, Society of Nuclear
Medicine, (1997 Aug) 38 (8) 1327-33.
Journal code: 0217410. ISSN: 0161-5505.

CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199709
ED Entered STN: 19970922
Last Updated on STN: 20000303
Entered Medline: 19970908

=> d 8

L15 ANSWER 8 OF 8 MEDLINE on STN
AN 97074783 MEDLINE
DN PubMed ID: 8917210
TI The transition from technegas to pertechnegas.
CM Comment on: J Nucl Med. 1995 Feb;36(2):267-9. PubMed ID: 7830129
AU Burch W M; Browitt R J
SO Journal of nuclear medicine : official publication, Society of Nuclear
Medicine, (1996 Nov) 37 (11) 1917-8.
Journal code: 0217410. ISSN: 0161-5505.
CY United States
DT Commentary
Letter
LA English
FS Priority Journals
EM 199612
ED Entered STN: 19970128
Last Updated on STN: 19980206
Entered Medline: 19961220

=> e senden timothy/au

E1 1 SENDEN THIJS M G/AU
E2 18 SENDEN TIM J/AU
E3 0 --> SENDEN TIMOTHY/AU
E4 1 SENDEN TIMOTHY J/AU
E5 3 SENDEN TIMOTHY JOHN/AU
E6 2 SENDEN W A A/AU
E7 2 SENDEN WILHELMUS A A/AU
E8 1 SENDEN WILHELMUS ANTONIUS ANNA/AU
E9 1 SENDENHO N/AU
E10 1 SENDENKO D M/AU
E11 1 SENDENSKI M/AU
E12 62 SENDER A/AU

=> s e2 or e4 or e5

L16 22 "SENDEN TIM J"/AU OR "SENDEN TIMOTHY J"/AU OR "SENDEN TIMOTHY
JOHN"/AU

=> d his

(FILE 'HOME' ENTERED AT 06:21:56 ON 08 APR 2004)

FILE 'REGISTRY' ENTERED AT 06:22:00 ON 08 APR 2004

E FULLERTAG/CN
E FULLER TAG/CN
E THROMBOTRACE/CN

L1 1 S E3

FILE 'CAPLUS, USPATFULL, BIOSIS, EMBASE, MEDLINE' ENTERED AT 06:23:04 ON
08 APR 2004

L2 2 S L1

L3 2 S THROMBOTRACE OR FULLERTAG OR THROMBO TRACE OR FULLER TAG

L4 0 S L3 NOT L2
 E NAIR CHENICHERI/AU
 L5 37 S E4 OR E5 OR E6 OR E8 OR E9 OR E7
 L6 31 DUP REM L5 (6 DUPLICATES REMOVED)
 L7 1 S L6 AND CARBON
 E SHATS ELENA/AU
 L8 2981220 S E1 OR 32 OR E4
 L9 397509 S L8 AND CARBON
 L10 12 S E1 OR E4
 L11 7 DUP REM L10 (5 DUPLICATES REMOVED)
 E BURCH WILLIAM/AU
 L12 10 S E12
 L13 10 S L12 NOT L11
 E BROWITT RODNEY/AU
 L14 10 S E1 OR E2 OR E3 OR E4 OR E5
 L15 8 S L14 NOT (L13 OR L11)
 E SENDEN TIMOTHY/AU
 L16 22 S E2 OR E4 OR E5

=> s l16 not (l15 or l12 or l11)
 L17 20 L16 NOT (L15 OR L12 OR L11)

=> d ibib

L17 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2003:793204 CAPLUS
 TITLE: 3D imaging of the spreading and penetration of aqueous
 liquids into unsized and sized papers
 AUTHOR(S): Roberts, Raymond J.; **Senden, Tim J.**;
 Knackstedt, Mark A.
 CORPORATE SOURCE: Department of Applied Mathematics, Research School of
 Physical Sciences and Engineering, Australian National
 University, Canberra, ACT, 0200, Australia
 SOURCE: Preprints - International Paper and Coating Chemistry
 Symposium, 5th, Montreal, QC, Canada, June 16-19, 2003
 (2003), 303-311. Pulp and Paper Technical Association
 of Canada: Montreal, Que.
 CODEN: 69EPUK; ISBN: 1-896742-88-2
 DOCUMENT TYPE: Conference
 LANGUAGE: English
 REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s l17 and carbon
 L18 0 L17 AND CARBON

=> d 2
 L18 HAS NO ANSWERS
 '2 ' IS NOT A VALID SEARCH STATUS KEYWORD
 Search status keywords:
 NONE ---- Display only the number of postings.
 STATUS -- Display statistics of the search.
 ENTER SEARCH STATUS OPTION (NONE), STATUS, OR ?:end

=> d l17 2

L17 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:495771 CAPLUS
 DN 137:213052
 TI Micromanipulation of phospholipid bilayers by atomic force microscopy
 AU Maeda, Nobuo; **Senden, Tim J.**; di Meglio, Jean-Marc
 CS Research School of Physical Sciences and Engineering, Department of
 Applied Mathematics, The Australian National University, Canberra, 0200,

Australia
SO Biochimica et Biophysica Acta (2002), 1564(1), 165-172
CODEN: BBACAQ; ISSN: 0006-3002
PB Elsevier Science B.V.
DT Journal
LA English
RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 117 3

L17 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:411423 CAPLUS
DN 135:37466
TI Force microscopy and surface interactions
AU **Senden, Tim J.**
CS Department of Applied Mathematics, Research School of Physical Sciences
and Engineering, The Australian National University, Canberra, 0200,
Australia
SO Current Opinion in Colloid & Interface Science (2001), 6(2), 95-101
CODEN: COCSFL; ISSN: 1359-0294
PB Elsevier Science Ltd.
DT Journal; General Review
LA English
RE.CNT 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 117 4

L17 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:231167 CAPLUS
DN 134:282619
TI Droplet penetration into porous networks: role of pore morphology
AU **Senden, Tim J.**; Knackstedt, Mark A.; Lyne, M. Bruce
CS Australian National University, Canberra, 0200, Australia
SO Nordic Pulp & Paper Research Journal (2000), 15(5), 554-563
CODEN: NPPJEG; ISSN: 0283-2631
PB Nordic Pulp & Paper Research Journal
DT Journal
LA English
RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 117 5

L17 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:145455 CAPLUS
DN 134:340053
TI Contact angles of aqueous solutions on copper surfaces bearing
self-assembled monolayers
AU Craig, Vincent S. J.; Jones, Anthony C.; **Senden, Tim J.**
CS Dep. Appl. Math., Res. Phys. Sci., Aust. Natl. Univ., Canberra, 0200,
Australia
SO Journal of Chemical Education (2001), 78(3), 345-346
CODEN: JCEDA8; ISSN: 0021-9584
PB Division of Chemical Education of the American Chemical Society
DT Journal
LA English
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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NEWS	4	DEC 08	INPADOC: Legal Status data reloaded
NEWS	5	SEP 29	DISSABS now available on STN
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NEWS	7	OCT 21	BIOSIS file reloaded and enhanced
NEWS	8	OCT 28	BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS	9	NOV 24	MSDS-CCOHS file reloaded
NEWS	10	DEC 08	CABA reloaded with left truncation
NEWS	11	DEC 08	IMS file names changed
NEWS	12	DEC 09	Experimental property data collected by CAS now available in REGISTRY
NEWS	13	DEC 09	STN Entry Date available for display in REGISTRY and CA/CAPLUS
NEWS	14	DEC 17	DGENE: Two new display fields added
NEWS	15	DEC 18	BIOTECHNO no longer updated
NEWS	16	DEC 19	CROPU no longer updated; subscriber discount no longer available
NEWS	17	DEC 22	Additional INPI reactions and pre-1907 documents added to CAS databases
NEWS	18	DEC 22	IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS	19	DEC 22	ABI-INFORM now available on STN
NEWS	20	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS	21	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAPLUS
NEWS	22	FEB 05	German (DE) application and patent publication number format changes
NEWS	23	MAR 03	MEDLINE and LMEDLINE reloaded
NEWS	24	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	25	MAR 03	FRANCEPAT now available on STN
NEWS	26	MAR 29	Pharmaceutical Substances (PS) now available on STN
NEWS	27	MAR 29	WPIFV now available on STN
NEWS	28	MAR 29	No connect hour charges in WPIFV until May 1, 2004
NEWS	29	MAR 29	New monthly current-awareness alert (SDI) frequency in RAPRA
NEWS	EXPRESS		MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
NEWS	HOURS		STN Operating Hours Plus Help Desk Availability
NEWS	INTER		General Internet Information
NEWS	LOGIN		Welcome Banner and News Items
NEWS	PHONE		Direct Dial and Telecommunication Network Access to STN
NEWS	WWW		CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 06:21:56 ON 08 APR 2004

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

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FILE 'REGISTRY' ENTERED AT 06:22:00 ON 08 APR 2004

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STRUCTURE FILE UPDATES: 6 APR 2004 HIGHEST RN 672263-62-6

DICTIONARY FILE UPDATES: 6 APR 2004 HIGHEST RN 672263-62-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

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E1	1	FULLERITE-N-VINYLCARBAZOLE COPOLYMER/CN
E2	1	FULLEROPYRROLIDINE/CN
E3	0 -->	FULLERTAG/CN
E4	1	FULLHOUSE/CN
E5	1	FULLINE PMB-F 301/CN
E6	1	FULLINE PMB-F 401BF/CN
E7	1	FULLON MASK/CN
E8	1	FULLPET/CN
E9	1	FULLSAFE/CN
E10	1	FULLVEIL 11028/CN
E11	1	FULLVEIL 53012/CN
E12	1	FULLVEIL 55012/CN

=> e fuller tag/cn

E1	1	FULLER PD 661/CN
E2	1	FULLER PDE 062/CN
E3	0 -->	FULLER TAG/CN
E4	1	FULLER'S EARTH/CN
E5	1	FULLER'S EARTH, JAPANESE ACID CLAY/CN
E6	1	FULLER'S EARTH, REACTION PRODUCTS WITH GLYCEROL, LANOLIN, ME SALICYLATE, POLYETHYLENE GLYCOL, SODIUM SILICATE, STEARIC A CID AND TRIETHANOLAMINE/CN
E7	2	FULLERENE/CN
E8	1	FULLERENE (13C60)/CN

E9 1 FULLERENE (B2C58)/CN
E10 1 FULLERENE (B2C68)/CN
E11 1 FULLERENE (B3C57)/CN
E12 1 FULLERENE (B3C67)/CN

=> e thrombotrace/cn

E1 1 THROMBOTEST/CN
E2 1 THROMBOTONIN/CN
E3 1 --> THROMBOTRACE/CN
E4 1 THROMBOX-13-EN-1-OIC ACID, 11-METHOXY-9,15-BIS((TRIMETHYLSILYL)OXY)-, METHYL ESTER, (9A,11A,13E,15R)-/CN
E5 1 THROMBOX-13-EN-1-OIC ACID, 11-METHOXY-9,15-BIS((TRIMETHYLSILYL)OXY)-, METHYL ESTER, (9A,11A,13E,15S)-/CN
E6 1 THROMBOX-13-EN-1-OIC ACID, 11-METHOXY-9,15-BIS((TRIMETHYLSILYL)OXY)-, TRIMETHYLSILYL ESTER, (9A,11A,13E,15R)-/CN
E7 1 THROMBOX-13-EN-1-OIC ACID, 11-METHOXY-9,15-BIS((TRIMETHYLSILYL)OXY)-, TRIMETHYLSILYL ESTER, (9A,11A,13E,15S)-/CN
E8 1 THROMBOX-13-EN-1-OIC ACID, 5,6,9,11,15-PENTAHYDROXY-, (9.ALPHA.,13E,15S)-/CN
E9 1 THROMBOX-13-EN-1-OIC ACID, 5,6-EPOXY-9,11,15-TRIHIDROXY-, (9A,13E,15S)-/CN
E10 1 THROMBOX-13-EN-1-OIC ACID, 5,6:9,11-DIEPOXY-15-HYDROXY-, (9.ALPHA.,11A,13E,15S)-/CN
E11 1 THROMBOX-13-EN-1-OIC ACID, 6,9-EPOXY-15-HYDROXY-5-iodo-11-METHOXY-, METHYL ESTER, (9A,13E,15S)-/CN
E12 1 THROMBOX-13-EN-1-OIC ACID, 6,9-EPOXY-5,11,15-TRIHIDROXY-, (5R,6R,9A,13E,15S)-/CN

=> s e3

L1 1 THROMBOTRACE/CN

=> d

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 220323-85-3 REGISTRY

CN **ThromboTrace (9CI)** (CA INDEX NAME)

ENTE An aqueous colloid of nano-encapsulates with 2-10 layers of carbon enclosing a technetium crystal and PEG palmityl ether; "Fullertag" is without the surfactant

MF Unspecified

CI MAN

SR CA

LC STN Files: BIOSIS, CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil caplus uspatfull biosis embase medline

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

7.04

7.25

FILE 'CAPLUS' ENTERED AT 06:23:04 ON 08 APR 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE 'USPATFULL' ENTERED AT 06:23:04 ON 08 APR 2004

CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 06:23:04 ON 08 APR 2004
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FILE 'EMBASE' ENTERED AT 06:23:04 ON 08 APR 2004
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FILE 'MEDLINE' ENTERED AT 06:23:04 ON 08 APR 2004

=> s l1

L2 2 L1

=> d

L2 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:90549 CAPLUS
DN 130:164988
TI Marker contained in carbon nano-encapsulate for detection of fibrin clots
and for labeling macromolecules
IN Burch, William Martin; Browitt, Rodney James; Nair, Chenicheri Hariharan;
Shats, Elena Alexandra
PA The Australian National University, Australia
SO PCT Int. Appl., 45 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9904826	A1	19990204	WO 1997-AU467	19970724
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9735321	A1	19990216	AU 1997-35321	19970724
	WO 9904827	A1	19990204	WO 1998-AU582	19980723
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9884259	A1	19990216	AU 1998-84259	19980723
	AU 744489	B2	20020228		
	EP 1027080	A1	20000816	EP 1998-934690	19980723
	R:	AT, BE, CH, DE, FR, GB, IT, LI, NL, SE			
	JP 2001510812	T2	20010807	JP 2000-503878	19980723
PRAI	WO 1997-AU467	A	19970724		
	WO 1998-AU582	W	19980723		

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 2

L2 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 1999:120056 BIOSIS
DN PREV199900120056
TI ThromboTraceX, a new diagnostic agent with high specificity to bind fibrin

in vivo.

AU Nair, H. [Reprint author]; Shats, E. [Reprint author]; Burch, W. [Reprint author]; Browitt, R. [Reprint author]; Senden, T.; Maxwell, L.
 CS John Curtin Sch. Med. Res., Canberra, Australia
 SO Blood Coagulation and Fibrinolysis, (Oct., 1998) Vol. 9, No. 7, pp. 716-717. print.
 Meeting Info.: Meeting of the XVth International Fibrinogen Workshop. Cleveland, Ohio, USA. August 13-15, 1998.
 CODEN: BLFIE7. ISSN: 0957-5235.

DT Conference; (Meeting)
 Conference; Abstract; (Meeting Abstract)

LA English

ED Entered STN: 12 Mar 1999
 Last Updated on STN: 5 May 1999

=> s thrombotrace or fullertag or thrombo trace or fuller tag
 L3 2 THROMBOTRACE OR FULLERTAG OR THROMBO TRACE OR FULLER TAG

=> s l3 not l2
 L4 0 L3 NOT L2

=> e nair chenicheri/au

E1	10	NAIR CHEMBUMKULAM SREEDHARAN BHASKARAN/AU
E2	1	NAIR CHEMICHARI HARIHARAN/AU
E3	0 -->	NAIR CHENICHERI/AU
E4	5	NAIR CHENICHERI H/AU
E5	1	NAIR CHENICHERI HARIBARAN/AU
E6	27	NAIR CHENICHERI HARIHARAN/AU
E7	1	NAIR CHENICHERI SIDDHARTHAN/AU
E8	1	NAIR CHERUKANDATH N/AU
E9	2	NAIR CHERUKANTATH N/AU
E10	1	NAIR CHERUKANTATH NARAYANAN/AU
E11	4	NAIR CHERUPALLY K K/AU
E12	1	NAIR CHERUPALLY K KRISHNAN/AU

=> s e4 or e5 or e6 or e8 or e9 or e7
 L5 37 "NAIR CHENICHERI H"/AU OR "NAIR CHENICHERI HARIBARAN"/AU OR
 "NAIR CHENICHERI HARIHARAN"/AU OR "NAIR CHERUKANDATH N"/AU OR
 "NAIR CHERUKANTATH N"/AU OR "NAIR CHENICHERI SIDDHARTHAN"/AU

=> dup rem l5
 PROCESSING COMPLETED FOR L5
 L6 31 DUP REM L5 (6 DUPLICATES REMOVED)

=> s l6 and carbon
 L7 1 L6 AND CARBON

=> d

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:90549 CAPLUS
 DN 130:164988
 TI Marker contained in **carbon** nano-encapsulate for detection of
 fibrin clots and for labeling macromolecules
 IN Burch, William Martin; Browitt, Rodney James; **Nair, Chenicheri**
Hariharan; Shats, Elena Alexandra
 PA The Australian National University, Australia
 SO PCT Int. Appl., 45 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1
 PATENT NO. KIND DATE APPLICATION NO. DATE


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PI  WO 9904826      A1  19990204      WO 1997-AU467      19970724
    W:  AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
        DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ,
        LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,
        PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US,
        UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
    RW:  GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,
        GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,
        GN, ML, MR, NE, SN, TD, TG
AU  9735321      A1  19990216      AU 1997-35321      19970724
WO  9904827      A1  19990204      WO 1998-AU582      19980723
    W:  AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
        DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG,
        KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
        NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
        UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
    RW:  GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
        FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
        CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
AU  9884259      A1  19990216      AU 1998-84259      19980723
AU  744489       B2  20020228
EP  1027080      A1  20000816      EP 1998-934690      19980723
    R:  AT, BE, CH, DE, FR, GB, IT, LI, NL, SE
JP  2001510812    T2  20010807      JP 2000-503878      19980723
PRAI WO 1997-AU467  A  19970724
     WO 1998-AU582  W  19980723
RE.CNT 6      THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
                ALL CITATIONS AVAILABLE IN THE RE FORMAT

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=> e shats elena/au

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E1      11      SHATS E A/AU
E2      6       SHATS E I/AU
E3      0 --> SHATS ELENA/AU
E4      1       SHATS ELENA ALEXANDRA/AU
E5      1       SHATS EVGENIJ I/AU
E6      1       SHATS H/AU
E7      3       SHATS HADAS/AU
E8      9       SHATS I/AU
E9      2       SHATS I K/AU
E10     14      SHATS IGOR/AU
E11     2       SHATS KA R M/AU
E12     3       SHATS KII I P/AU

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=> s e1 or 32 or e4

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L8      2981220 "SHATS E A"/AU OR 32 OR "SHATS ELENA ALEXANDRA"/AU

```

=> s l8 and carbon

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L9      397509 L8 AND CARBON

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=> s e1 or e4

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L10     12      "SHATS E A"/AU OR "SHATS ELENA ALEXANDRA"/AU

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=> dup rem l10

PROCESSING COMPLETED FOR L10

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L11     7 DUP REM L10 (5 DUPLICATES REMOVED)

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=> d

L11 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:90549 CAPLUS

DN 130:164988

TI Marker contained in carbon nano-encapsulate for detection of fibrin clots

and for labeling macromolecules
 IN Burch, William Martin; Browitt, Rodney James; Nair, Chenicheri Hariharan;
Shats, Elena Alexandra
 PA The Australian National University, Australia
 SO PCT Int. Appl., 45 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9904826	A1	19990204	WO 1997-AU467	19970724
	W:				
	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,				
	DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ,				
	LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,				
	PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US,				
	UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,				
	GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,				
	GN, ML, MR, NE, SN, TD, TG				
	AU 9735321	A1	19990216	AU 1997-35321	19970724
	WO 9904827	A1	19990204	WO 1998-AU582	19980723
	W:				
	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,				
	DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG,				
	KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,				
	NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,				
	UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,				
	FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,				
	CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9884259	A1	19990216	AU 1998-84259	19980723
	AU 744489	B2	20020228		
	EP 1027080	A1	20000816	EP 1998-934690	19980723
	R:				
	AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
	JP 2001510812	T2	20010807	JP 2000-503878	19980723
PRAI	WO 1997-AU467	A	19970724		
	WO 1998-AU582	W	19980723		
RE.CNT	6	THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT			

=> d 2

L11 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1998:159645 CAPLUS
 DN 128:292394
 TI Compaction as a method to characterize fibrin network structure: kinetic studies and relationship to crosslinking
 AU Nair, C. H.; **Shats, E. A.**
 CS Thrombosis Research Unit, The Canberra Hospital, Woden, ACT 2606, Australia
 SO Thrombosis Research (1998), Volume Date 1997, 88(4), 381-387
 CODEN: THBRAA; ISSN: 0049-3848
 PB Elsevier Science Inc.
 DT Journal
 LA English
 RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 3

L11 ANSWER 3 OF 7 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 DUPLICATE 1

AN 1998:176598 BIOSIS
 DN PREV199800176598
 TI Compaction as a method to characterise fibrin network structure: Kinetic studies and relationship to crosslinking.
 AU Nair, C. H. [Reprint author]; **Shats, E. A.**
 CS Thrombosis Res. Unit, Canberra Hosp., PO Box 11, Woden, ACT 2606, Australia
 SO Thrombosis Research, (Nov. 15, 1997) Vol. 88, No. 4, pp. 381-387. print. CODEN: THBRAA. ISSN: 0049-3848.
 DT Article
 LA English
 ED Entered STN: 20 Apr 1998
 Last Updated on STN: 20 Apr 1998

=> d 4

L11 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2
 AN 1997:156535 CAPLUS
 DN 126:262572
 TI Interaction of endothelial cells and fibroblasts with modified fibrin networks: role in atherosclerosis
 AU **Shats, E. A.**; Nair, C. H.; Dhall, D. P.
 CS Vascular and Thrombosis Research Unit, Woden Valley Hospital, Canberra, ACT, 2606, Australia
 SO Atherosclerosis (Shannon, Ireland) (1997), 129(1), 9-15
 CODEN: ATHSBL; ISSN: 0021-9150
 PB Elsevier
 DT Journal
 LA English

=> d 5

L11 ANSWER 5 OF 7 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 1997:100029 BIOSIS
 DN PREV199799399232
 TI Diabetes, lipids and fibrin matrices: Interaction with vascular cells.
 AU **Shats, E. A.** [Reprint author]; Nair, C. H. [Reprint author]; Ali, S. [Reprint author]; Wilson, J. D.; Dhall, D. P. [Reprint author]
 CS Vascular Thrombosis Research Unit, Canberra, ACT, Australia
 SO Fibrinolysis, (1996) Vol. 10, No. SUPPL. 4, pp. 18.
 Meeting Info.: XIVth International Fibrinogen Workshop. Canberra, Australia. August 21-23, 1996.
 CODEN: FBRIE7. ISSN: 0268-9499.
 DT Conference; (Meeting)
 Conference; Abstract; (Meeting Abstract)
 LA English
 ED Entered STN: 3 Mar 1997
 Last Updated on STN: 3 Mar 1997

=> d 6 ibib abs kwic

L11 ANSWER 6 OF 7 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 ACCESSION NUMBER: 1997:100030 BIOSIS
 DOCUMENT NUMBER: PREV199799399233
 TITLE: The vascular wall and fibrin: Endothelial cell, fibroblast, and smooth muscle cell growth and function.
 AUTHOR(S): **Shats, E. A.**; Nair, C.h.; Dhall, D. P.
 CORPORATE SOURCE: Vascular Thrombosis Reserach Unit, Woden Valley Hosp., Canberra, ACT, Australia
 SOURCE: Fibrinolysis, (1996) Vol. 10, No. SUPPL. 4, pp. 18.
 Meeting Info.: XIVth International Fibrinogen Workshop.

Canberra, Australia. August 21-23, 1996.
CODEN: FBRIE7. ISSN: 0268-9499.
DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 3 Mar 1997
Last Updated on STN: 3 Mar 1997
AU Shats, E. A.; Nair, C.h.; Dhall, D. P.

=> d 7 ibib abs kwic

L11 ANSWER 7 OF 7 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 1997:100013 BIOSIS
DOCUMENT NUMBER: PREV199799399216
TITLE: Characterizing fibrin network: The calcium conundrum.
AUTHOR(S): Nair, C. H.; Shats, E. A.; Ramasundara, S.;
Dhall, D. P.
CORPORATE SOURCE: Vascular Thrombosis Research Unit, Woden Valley Hosp., PO
Box 11, Woden, ACT 2606, Australia
SOURCE: Fibrinolysis, (1996) Vol. 10, No. SUPPL. 4, pp. 12.
Meeting Info.: XIVth International Fibrinogen Workshop.
Canberra, Australia. August 21-23, 1996.
CODEN: FBRIE7. ISSN: 0268-9499.
DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 3 Mar 1997
Last Updated on STN: 2 Apr 1997
AU Nair, C. H.; Shats, E. A.; Ramasundara, S.; Dhall, D. P.

=> e burch william/au

E1	13	BURCH WENDELL D/AU
E2	8	BURCH WHITMAN C/AU
E3	3 -->	BURCH WILLIAM/AU
E4	1	BURCH WILLIAM A/AU
E5	7	BURCH WILLIAM D/AU
E6	2	BURCH WILLIAM E/AU
E7	3	BURCH WILLIAM F/AU
E8	1	BURCH WILLIAM J/AU
E9	1	BURCH WILLIAM JR/AU
E10	4	BURCH WILLIAM L/AU
E11	1	BURCH WILLIAM LINNEAUS/AU
E12	10	BURCH WILLIAM M/AU

=> s e12

L12 10 "BURCH WILLIAM M"/AU

=> d his

(FILE 'HOME' ENTERED AT 06:21:56 ON 08 APR 2004)

FILE 'REGISTRY' ENTERED AT 06:22:00 ON 08 APR 2004

E FULLERTAG/CN
E FULLER TAG/CN
E THROMBOTRACE/CN

L1 1 S E3

FILE 'CAPLUS, USPATFULL, BIOSIS, EMBASE, MEDLINE' ENTERED AT 06:23:04 ON
08 APR 2004

L2 2 S L1
L3 2 S THROMBOTRACE OR FULLERTAG OR THROMBO TRACE OR FULLER TAG
L4 0 S L3 NOT L2

E NAIR CHENICHERI/AU
 L5 37 S E4 OR E5 OR E6 OR E8 OR E9 OR E7
 L6 31 DUP REM L5 (6 DUPLICATES REMOVED)
 L7 1 S L6 AND CARBON
 E SHATS ELENA/AU
 L8 2981220 S E1 OR 32 OR E4
 L9 397509 S L8 AND CARBON
 L10 12 S E1 OR E4
 L11 7 DUP REM L10 (5 DUPLICATES REMOVED)
 E BURCH WILLIAM/AU
 L12 10 S E12

=> s l12 not l11

L13 10 L12 NOT L11

=> d

L13 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1988:52147 CAPLUS
 DN 108:52147
 TI Method of forming a pertechnetate aerosol composition for lung examination
 by tomography
 IN **Burch, William M.**
 PA Capital Territory Health Commission, Australia
 SO Can., 6 pp.
 CODEN: CAXXA4
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CA 1225025	A1	19870804	CA 1984-459362	19840720
PRAI	CA 1984-459362		19840720		

=> d 2

L13 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1988:34181 CAPLUS
 DN 108:34181
 TI Technegas - a new ventilation agent for lung scanning
 AU **Burch, William M.**; Sullivan, Paul J.; McLaren, Christopher J.
 CS John Curtin Sch. Med. Res., Australian Natl. Univ., Acton, 2601, Australia
 SO Nuclear Medicine Communications (1986), 7(12), 865-71, 4 plates
 CODEN: NMCODC; ISSN: 0143-3636
 DT Journal
 LA English

=> d 3

L13 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1969:8344 CAPLUS
 DN 70:8344
 TI Two level isothermal read-out for high precision thermoluminescence
 dosimetry with lithium fluoride
 AU **Burch, William M.**
 CS Cancer Inst., Melbourne, Australia
 SO Physics in Medicine & Biology (1968), 13(4), 627-34
 CODEN: PHMBA7; ISSN: 0031-9155
 DT Journal
 LA English

=> d 4

L13 ANSWER 4 OF 10 USPATFULL on STN
AN 93:58223 USPATFULL
TI Device for producing a gas-lite radionuclide composition
IN **Burch, William M.**, Duffy, Australia
PA I. J. & L. A. Tetley Manufacturing Pty. Ltd., New South Wales, Australia
(non-U.S. corporation)
PI US 5228444 19930720
AI US 1991-661664 19910227 (7)
RLI Continuation of Ser. No. US 1989-462303, filed on 21 Dec 1989, now
abandoned which is a continuation of Ser. No. US 1988-251930, filed on
29 Sep 1988, now abandoned which is a continuation of Ser. No. US
1985-784847, filed on 4 Oct 1985, now abandoned
PRAI AU 1984-7486 19841004
DT Utility
FS Granted
LN.CNT 398
INCL INCLM: 128/654.000
INCLS: 128/659.000; 128/203.270
NCL NCLM: 600/431.000
NCLS: 128/203.270; 600/436.000
IC [5]
ICM: A61B006-00
EXF 128/654; 128/659; 128/203.17; 128/203.27; 600/3

=> d 5

L13 ANSWER 5 OF 10 USPATFULL on STN
AN 91:92333 USPATFULL
TI Method of forming a radioactive metallic vapor
IN **Burch, William M.**, Duffy, Australia
PA I. J. & L. A. Tetley Manuf. Pty. Ltd., Caringbah, Australia (non-U.S.
corporation)
PI US 5064634 19911112
AI US 1990-519851 19900504 (7)
RLI Continuation-in-part of Ser. No. US 1988-192221, filed on 9 May 1988,
now abandoned which is a division of Ser. No. US 1985-784847, filed on 4
Oct 1985, now abandoned
PRAI AU 1984-7486 19841010
DT Utility
FS Granted
LN.CNT 339
INCL INCLM: 424/001.100
INCLS: 128/659.000; 423/249.000
NCL NCLM: 424/001.130
NCLS: 423/249.000; 424/001.610; 534/014.000; 600/436.000
IC [5]
ICM: A61B006-00
ICS: A61K049-02
EXF 424/1.1; 534/14; 128/659; 128/671; 423/249
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 6

L13 ANSWER 6 OF 10 USPATFULL on STN
AN 81:40858 USPATFULL
TI Diagnostic compositions
IN **Burch, William M.**, Duffy, Australia
PA Capital Territory Health Commission, Canberra City, Australia (non-U.S.
corporation)
PI US 4280991 19810728

AI US 1978-928615 19780727 (5)
 PRAI AU 1977-1020 19770729
 DT Utility
 FS Granted
 LN.CNT 157
 INCL INCLM: 424/001.000
 INCLS: 128/659.000; 128/671.000; 252/305.000; 252/301.100R; 424/001.500;
 424/009.000; 424/045.000; 423/249.000
 NCL NCLM: 424/001.130
 NCLS: 423/249.000; 424/001.610; 424/045.000; 516/002.000; 600/436.000;
 600/484.000
 IC [3]
 ICM: A61K049-00
 ICS: A61K043-00; G01T001-00
 EXF 424/1; 424/9; 424/45; 252/305; 252/301.1R; 128/2A; 128/659; 128/671;
 423/249
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 7

L13 ANSWER 7 OF 10 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 1997:407519 BIOSIS
 DN PREV199799713722
 TI The physical and chemical nature of technegas.
 AU Senden, Tim J. [Reprint author]; Moock, Klaus H.; Gerald, John Fitz;
Burch, William M.; Browitt, Rodney J.; Ling, Christopher D.;
 Heath, Graham A.
 CS Dep. Applied Mathematics, Res. Sch. Physical Sciences Engineering,
 Australian Natl. Univ., Canberra, ACT 0200, Australia
 SO Journal of Nuclear Medicine, (1997) Vol. 38, No. 8, pp. 1327-1333.
 CODEN: JNMEAQ. ISSN: 0161-5505.
 DT Article
 LA English
 ED Entered STN: 24 Sep 1997
 Last Updated on STN: 24 Sep 1997

=> d 8

L13 ANSWER 8 OF 10 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 1997:77957 BIOSIS
 DN PREV199799384660
 TI Physical properties and use of pertechneegas as a ventilation agent.
 AU Mackey, Douglas W. J. [Reprint author]; Jackson, Phillip; Baker, Richmond
 J.; Dasaklis, Con; Fisher, Keith J.; Magee, Michael; Bush, Vivienne;
Burch, William M.; Van Der Wall, Hans; Willett, Gary D.
 CS Dep. Nuclear Med., Concord Repatriation Hosp., Concord Rd., Concord, NSW
 2139, Australia
 SO Journal of Nuclear Medicine, (1997) Vol. 38, No. 1, pp. 163-167.
 CODEN: JNMEAQ. ISSN: 0161-5505.
 DT Article
 LA English
 ED Entered STN: 26 Feb 1997
 Last Updated on STN: 26 Feb 1997

=> d 9

L13 ANSWER 9 OF 10 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 1993:86719 BIOSIS
 DN PREV199344040969
 TI The penetration of technegas to the respiring airways.
 AU **Burch, William M.**

CS Dep. Clin. Sci., John Curtin Sch. Med. Res., ANU, P.O. Box 334, Canberra,
ACT 2601, Australia

SO Australian and New Zealand Journal of Medicine, (1992) Vol. 22, No. 4, pp.
397.
Meeting Info.: 23rd Annual Scientific Meeting of the Australian and New
Zealand Society of Nuclear Medicine. Adelaide, South Australia, Australia.
May 3-6, 1992.
CODEN: ANZJB8. ISSN: 0004-8291.

DT Conference; (Meeting)

LA English

ED Entered STN: 1 Feb 1993
Last Updated on STN: 2 Feb 1993

=> d 10

L13 ANSWER 10 OF 10 MEDLINE on STN

AN 2002667180 MEDLINE

DN PubMed ID: 12427664

TI Passage of inhaled particles into the blood circulation in humans.

CM Comment on: Circulation. 2002 Jan 29;105(4):411-4. PubMed ID: 11815420

AU **Burch William M**

SO Circulation, (2002 Nov 12) 106 (20) e141-2; author reply e141-2.
Journal code: 0147763. ISSN: 1524-4539.

CY United States

DT Commentary
Letter

LA English

FS Abridged Index Medicus Journals; Priority Journals

EM 200211

ED Entered STN: 20021113
Last Updated on STN: 20030111
Entered Medline: 20021125

=> e browitt rodney/au

E1 1 BROWITT R/AU

E2 4 BROWITT R J/AU

E3 2 --> BROWITT RODNEY/AU

E4 1 BROWITT RODNEY J/AU

E5 2 BROWITT RODNEY JAMES/AU

E6 1 BROWK P K/AU

E7 3 BROWKA A V/AU

E8 2 BROWKA N V/AU

E9 1 BROWKA T M/AU

E10 1 BROWKAERT TOM P E/AU

E11 5 BROWKINA A F/AU

E12 1 BROWKING P J/AU

=> s e1 or e2 or e3 or e4 or e5

L14 10 "BROWITT R"/AU OR "BROWITT R J"/AU OR "BROWITT RODNEY"/AU OR
"BROWITT RODNEY J"/AU OR "BROWITT RODNEY JAMES"/AU

=> d his

(FILE 'HOME' ENTERED AT 06:21:56 ON 08 APR 2004)

FILE 'REGISTRY' ENTERED AT 06:22:00 ON 08 APR 2004

E FULLERTAG/CN

E FULLER TAG/CN

E THROMBOTRACE/CN

L1 1 S E3

FILE 'CAPLUS, USPATFULL, BIOSIS, EMBASE, MEDLINE' ENTERED AT 06:23:04 ON


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L2          2 S L1
L3          2 S THROMBOTRACE OR FULLERTAG OR THROMBO TRACE OR FULLER TAG
L4          0 S L3 NOT L2
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L5          37 S E4 OR E5 OR E6 OR E8 OR E9 OR E7
L6          31 DUP REM L5 (6 DUPLICATES REMOVED)
L7          1 S L6 AND CARBON
            E SHATS ELENA/AU
L8          2981220 S E1 OR 32 OR E4
L9          397509 S L8 AND CARBON
L10         12 S E1 OR E4
L11         7 DUP REM L10 (5 DUPLICATES REMOVED)
            E BURCH WILLIAM/AU
L12         10 S E12
L13         10 S L12 NOT L11
            E BROWITT RODNEY/AU
L14         10 S E1 OR E2 OR E3 OR E4 OR E5
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PI	WO 2002036174	A1	20020510	WO 2001-AU1365	20011024	
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002011991	A5	20020515	AU 2002-11991	20011024	
	EP 1337277	A1	20030827	EP 2001-980054	20011024	
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRAI	AU 2000-1131	A	20001030			
	WO 2001-AU1365	W	20011024			
RE.CNT	1	THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD				
		ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L15 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1996:246079 CAPLUS
DN 124:264262
TI An electrostatic precipitator for trapping inhalable radioactive carbon particles in a liquid mist

IN **Browitt, Rodney**
 PA Allrad No. 28 Pty Ltd, Australia; Allrad No. 29 Pty Ltd; Allrad No. 19 Pty Ltd
 SO Eur. Pat. Appl., 11 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 703005	A1	19960327	EP 1995-306656	19950920
	EP 703005	B1	19991222		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	CA 2158715	AA	19960322	CA 1995-2158715	19950920
	AU 9531778	A1	19960404	AU 1995-31778	19950920
	AU 686861	B2	19980212		
	AT 187901	E	20000115	AT 1995-306656	19950920
	ES 2143009	T3	20000501	ES 1995-306656	19950920
	PT 703005	T	20000531	PT 1995-95306656	19950920
	JP 08173841	A2	19960709	JP 1995-243467	19950921
	GR 3033042	T3	20000831	GR 2000-400728	20000322
PRAI	AU 1994-8332	A	19940921		
	AU 1995-3332	A	19950602		

=> d 3

L15 ANSWER 3 OF 8 USPATFULL on STN
 AN 1998:95024 USPATFULL
 TI Precipitator
 IN **Browitt, Rodney**, Kaleen, Australia
 PA Allrad No. 28 Pty Ltd., Canberra, Australia (non-U.S. corporation)
 Allrad No. 29 Pty Ltd., Canberra, Australia (non-U.S. corporation)
 Allrad No. 19 Pty Ltd., Canberra, Australia (non-U.S. corporation)
 PI US 5792241 19980811
 AI US 1995-530983 19950920 (8)
 PRAI AU 1994-8332 19940921
 AU 1995-3332 19950602
 DT Utility
 FS Granted
 LN.CNT 277
 INCL INCLM: 096/052.000
 INCLS: 096/061.000; 096/074.000; 096/097.000; 261/081.000; 261/DIG.048
 NCL NCLM: 096/052.000
 NCLS: 096/061.000; 096/074.000; 096/097.000; 261/081.000; 261/DIG.048
 IC [6]
 ICM: B03C003-16
 EXF 096/27; 096/52; 096/53; 096/74; 096/61; 096/69; 096/44; 096/45; 096/97;
 095/64-66; 095/71; 095/72; 095/78; 095/59; 095/75; 261/81; 261/DIG.48

=> d 4

L15 ANSWER 4 OF 8 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 1999:120056 BIOSIS
 DN PREV199900120056
 TI ThromboTraceX, a new diagnostic agent with high specificity to bind fibrin in vivo.
 AU Nair, H. [Reprint author]; Shats, E. [Reprint author]; Burch, W. [Reprint author]; **Browitt, R.** [Reprint author]; Senden, T.; Maxwell, L.
 CS John Curtin Sch. Med. Res., Canberra, Australia
 SO Blood Coagulation and Fibrinolysis, (Oct., 1998) Vol. 9, No. 7, pp. 716-717. print.
 Meeting Info.: Meeting of the XVth International Fibrinogen Workshop.

Cleveland, Ohio, USA. August 13-15, 1998.

CODEN: BLFIE7. ISSN: 0957-5235.

DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 12 Mar 1999
Last Updated on STN: 5 May 1999

=> d 5

L15 ANSWER 5 OF 8 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
AN 1998338072 EMBASE
TI Physical and chemical nature of technegas [2] (multiple letters).
AU Jackson P.; Mackey D.; Van der Wall H.; Senden T.J.; Moock K.H.; Fitz
Gerald J.D.; Burch W.M.; **Browitt R.J.**; Ling C.D.; Heath G.A.
CS P. Jackson, University of New South Wales, Sydney, NSW, Australia
SO Journal of Nuclear Medicine, (1998) 39/9 (1646-1647).
Refs: 9
ISSN: 0161-5505 CODEN: JNMEAQ
CY United States
DT Journal; Letter
FS 023 Nuclear Medicine
029 Clinical Biochemistry
LA English

=> d 6

L15 ANSWER 6 OF 8 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
AN 97238523 EMBASE
DN 1997238523
TI The physical and chemical nature of technegas.
AU Senden T.J.; Moock K.H.; Gerald J.F.; Burch W.M.; **Browitt R.J.**;
Ling C.D.; Heath G.A.
CS Dr. T.J. Senden, Dept. of Applied Mathematics, Res. Sch. of Physical
Sci./Engg., Australian National University, Canberra, ACT 0200, Australia
SO Journal of Nuclear Medicine, (1997) 38/8 (1327-1333).
Refs: 28
ISSN: 0161-5505 CODEN: JNMEAQ
CY United States
DT Journal; Article
FS 023 Nuclear Medicine
037 Drug Literature Index
LA English
SL English

=> d 7

L15 ANSWER 7 OF 8 MEDLINE on STN
AN 97399048 MEDLINE
DN PubMed ID: 9255177
TI The physical and chemical nature of technegas.
CM Comment in: J Nucl Med. 1998 Sep;39(9):1646-9. PubMed ID: 9744362
AU Senden T J; Moock K H; Gerald J F; Burch W M; **Browitt R J**; Ling
C D; Heath G A
CS Department of Physics, University College, University of New South Wales,
Canberra, Australia.
SO Journal of nuclear medicine : official publication, Society of Nuclear
Medicine, (1997 Aug) 38 (8) 1327-33.
Journal code: 0217410. ISSN: 0161-5505.

CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199709
ED Entered STN: 19970922
Last Updated on STN: 20000303
Entered Medline: 19970908

=> d 8

L15 ANSWER 8 OF 8 MEDLINE on STN
AN 97074783 MEDLINE
DN PubMed ID: 8917210
TI The transition from technegas to pertechnegas.
CM Comment on: J Nucl Med. 1995 Feb;36(2):267-9. PubMed ID: 7830129
AU Burch W M; Browitt R J
SO Journal of nuclear medicine : official publication, Society of Nuclear
Medicine, (1996 Nov) 37 (11) 1917-8.
Journal code: 0217410. ISSN: 0161-5505.
CY United States
DT Commentary
Letter
LA English
FS Priority Journals
EM 199612
ED Entered STN: 19970128
Last Updated on STN: 19980206
Entered Medline: 19961220

=> e senden timothy/au

E1 1 SENDEN THIJS M G/AU
E2 18 SENDEN TIM J/AU
E3 0 --> SENDEN TIMOTHY/AU
E4 1 SENDEN TIMOTHY J/AU
E5 3 SENDEN TIMOTHY JOHN/AU
E6 2 SENDEN W A A/AU
E7 2 SENDEN WILHELMUS A A/AU
E8 1 SENDEN WILHELMUS ANTONIUS ANNA/AU
E9 1 SENDENHO N/AU
E10 1 SENDENKO D M/AU
E11 1 SENDENSKI M/AU
E12 62 SENDER A/AU

=> s e2 or e4 or e5

L16 22 "SENDEN TIM J"/AU OR "SENDEN TIMOTHY J"/AU OR "SENDEN TIMOTHY
JOHN"/AU

=> d his

(FILE 'HOME' ENTERED AT 06:21:56 ON 08 APR 2004)

FILE 'REGISTRY' ENTERED AT 06:22:00 ON 08 APR 2004

E FULLERTAG/CN
E FULLER TAG/CN
E THROMBOTRACE/CN

L1 1 S E3

FILE 'CAPLUS, USPATFULL, BIOSIS, EMBASE, MEDLINE' ENTERED AT 06:23:04 ON
08 APR 2004

L2 2 S L1

L3 2 S THROMBOTRACE OR FULLERTAG OR THROMBO TRACE OR FULLER TAG

L4 0 S L3 NOT L2
 E NAIR CHENICHERI/AU
 L5 37 S E4 OR E5 OR E6 OR E8 OR E9 OR E7
 L6 31 DUP REM L5 (6 DUPLICATES REMOVED)
 L7 1 S L6 AND CARBON
 E SHATS ELENA/AU
 L8 2981220 S E1 OR 32 OR E4
 L9 397509 S L8 AND CARBON
 L10 12 S E1 OR E4
 L11 7 DUP REM L10 (5 DUPLICATES REMOVED)
 E BURCH WILLIAM/AU
 L12 10 S E12
 L13 10 S L12 NOT L11
 E BROWITT RODNEY/AU
 L14 10 S E1 OR E2 OR E3 OR E4 OR E5
 L15 8 S L14 NOT (L13 OR L11)
 E SENDEN TIMOTHY/AU
 L16 22 S E2 OR E4 OR E5

=> s l16 not (l15 or l12 or l11)
 L17 20 L16 NOT (L15 OR L12 OR L11)

=> d ibib

L17 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2003:793204 CAPLUS
 TITLE: 3D imaging of the spreading and penetration of aqueous
 liquids into unsized and sized papers
 AUTHOR(S): Roberts, Raymond J.; **Senden, Tim J.**;
 Knackstedt, Mark A.
 CORPORATE SOURCE: Department of Applied Mathematics, Research School of
 Physical Sciences and Engineering, Australian National
 University, Canberra, ACT, 0200, Australia
 SOURCE: Preprints - International Paper and Coating Chemistry
 Symposium, 5th, Montreal, QC, Canada, June 16-19, 2003
 (2003), 303-311. Pulp and Paper Technical Association
 of Canada: Montreal, Que.
 CODEN: 69EPUK; ISBN: 1-896742-88-2
 DOCUMENT TYPE: Conference
 LANGUAGE: English
 REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s l17 and carbon
 L18 0 L17 AND CARBON

=> d 2
 L18 HAS NO ANSWERS
 '2 ' IS NOT A VALID SEARCH STATUS KEYWORD
 Search status keywords:
 NONE ---- Display only the number of postings.
 STATUS -- Display statistics of the search.
 ENTER SEARCH STATUS OPTION (NONE), STATUS, OR ?:end

=> d l17 2

L17 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:495771 CAPLUS
 DN 137:213052
 TI Micromanipulation of phospholipid bilayers by atomic force microscopy
 AU Maeda, Nobuo; **Senden, Tim J.**; di Meglio, Jean-Marc
 CS Research School of Physical Sciences and Engineering, Department of
 Applied Mathematics, The Australian National University, Canberra, 0200,

Australia
SO Biochimica et Biophysica Acta (2002), 1564(1), 165-172
CODEN: BBACAQ; ISSN: 0006-3002
PB Elsevier Science B.V.
DT Journal
LA English
RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 117 3

L17 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:411423 CAPLUS
DN 135:37466
TI Force microscopy and surface interactions
AU **Senden, Tim J.**
CS Department of Applied Mathematics, Research School of Physical Sciences
and Engineering, The Australian National University, Canberra, 0200,
Australia
SO Current Opinion in Colloid & Interface Science (2001), 6(2), 95-101
CODEN: COCSFL; ISSN: 1359-0294
PB Elsevier Science Ltd.
DT Journal; General Review
LA English
RE.CNT 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 117 4

L17 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:231167 CAPLUS
DN 134:282619
TI Droplet penetration into porous networks: role of pore morphology
AU **Senden, Tim J.**; Knackstedt, Mark A.; Lyne, M. Bruce
CS Australian National University, Canberra, 0200, Australia
SO Nordic Pulp & Paper Research Journal (2000), 15(5), 554-563
CODEN: NPPJEG; ISSN: 0283-2631
PB Nordic Pulp & Paper Research Journal
DT Journal
LA English
RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 117 5

L17 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:145455 CAPLUS
DN 134:340053
TI Contact angles of aqueous solutions on copper surfaces bearing
self-assembled monolayers
AU Craig, Vincent S. J.; Jones, Anthony C.; **Senden, Tim J.**
CS Dep. Appl. Math., Res. Phys. Sci., Aust. Natl. Univ., Canberra, 0200,
Australia
SO Journal of Chemical Education (2001), 78(3), 345-346
CODEN: JCEDA8; ISSN: 0021-9584
PB Division of Chemical Education of the American Chemical Society
DT Journal
LA English
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s (hydrolyzed or hydrolyze or hydrolyzing) (l) (graphite)
L19 2886 (HYDROLYZED OR HYDROLYZE OR HYDROLYZING) (L) (GRAPHITE)

=> s l19 and (contrast or image or imaging)
L20 1097 L19 AND (CONTRAST OR IMAGE OR IMAGING)

=> s hydrolyzed graphite
L21 2 HYDROLYZED GRAPHITE

=> d ibib

L21 ANSWER 1 OF 2 USPATFULL on STN

ACCESSION NUMBER: 1998:48479 USPATFULL
TITLE: Solid surface modifier
INVENTOR(S): Smirnov, Aleksandr Vitalievich, #9 Rossoshanskay
Street, 3 Apt. 5, Moscow, Russian Federation 118535
Orlov, Oleg Georgievich, #74, Apt. 47 Prospect Mira,
Moscow, Russian Federation 128722
Golipad, Pyotr Nikolaevich, #10, Apt. 24 Vtoraya
Baumanskaya Str., Moscow, Russian Federation 107005
Koriakin, Yurii Nikolaevich, #16 Rublevesk Shosse, Apt.
23, Moscow, Russian Federation 121467
Yegorov, Boris Mikhailovich, #16 Rublevesk Shosse, Apt.
1, Moscow, Russian Federation 121467

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5747561		19980505
	WO 9409074		19940428
APPLICATION INFO.:	US 1995-416745		19951023 (8)
	WO 1993-US9482		19931004
			19951023 PCT 371 date
			19951023 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	RU 1992-92000551	19921014
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Dean, Karen A.	
LEGAL REPRESENTATIVE:	Oppenheimer Wolff & Donnelly, LLP	
NUMBER OF CLAIMS:	17	
EXEMPLARY CLAIM:	1	
LINE COUNT:	584	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 2 ibib

L21 ANSWER 2 OF 2 USPATFULL on STN

ACCESSION NUMBER: 97:22576 USPATFULL
TITLE: Fire resistant multipurpose protective coating
INVENTOR(S): Smirnov, Aleksandr V., Moscow, Russian Federation
Orlov, Oleg G., Moscow, Russian Federation
Golipad, Pyotr N., Moscow, Russian Federation
Koriakin, Yurii N., Moscow, Russian Federation
PATENT ASSIGNEE(S): Boeckmann, II, Herbert F., Sepulveda, CA, United States
(U.S. individual)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5612130		19970318
	WO 9408786		19940428

APPLICATION INFO.:	US 1995-416744	19950412	(8)
	WO 1993-US9405	19931004	
		19950412	PCT 371 date
		19950412	PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	RU 1992-92000566	19921014
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Le, Hoa T.	
LEGAL REPRESENTATIVE:	Poms, Smith, Lande & Rose	
NUMBER OF CLAIMS:	8	
EXEMPLARY CLAIM:	1	
LINE COUNT:	482	

=> s hydrolyze graphite
L22 0 HYDROLYZE GRAPHITE

=> s hydrolyzable graphite
L23 0 HYDROLYZABLE GRAPHITE

Searches for User */wells* (Count = 6809)

Queries 13519 through 13568.

Latest

Prev

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<u>S6808</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI	4572203.pn. 2004- 04-08 07:10:44		
<u>S6807</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI	(hydrolysis) near (graphite or graphitic) not hydrolyzed graphite	2004- 04-08 06:47:47	
<u>S6806</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI	(hydrolysis) near (graphite or graphitic)	2004- 04-08 06:47:40	
<u>S6805</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI	hydrolyzed graphite	2004- 04-08 06:38:39	